

YAMAHA

118pgs Motorcycle

OWNER'S MANUAL

Virago

**XV250K
XV250KC**

LIT-11626-11-08

2UJ-28199-16

Dear Yamaha ATV Owner: Please Review this IMPORTANT SAFETY CARD before operating your ATV (If card is not attached, call 1-800-344-6418).

Dear New Yamaha ATV Owner:

CONGRATULATIONS ON THE PURCHASE OF YOUR NEW YAMAHA ATV. You have purchased a quality Yamaha product that, with proper use and care, will provide hours of riding pleasure. **BEFORE YOU OPERATE YOUR NEW ATV, Yamaha recommends these important points:**

- READ YOUR OWNER'S MANUAL
- A CHILD UNDER 12 YEARS OLD SHOULD NOT OPERATE AN ATV WITH ENGINE SIZE 70CC OR GREATER
- A CHILD UNDER 16 YEARS OLD SHOULD NOT OPERATE AN ATV WITH ENGINE SIZE GREATER THAN 90CC
- TAKE THE FREE HANDS-ON TRAINING COURSE OFFERED BY YAMAHA — ASK YOUR DEALER FOR DETAILS OR CALL 1-800-887-2887

If you have any questions about these points, **or if you purchased your ATV from an authorized Yamaha dealership and were not informed of the age recommendation for your ATV by the dealership**, please fill out the information below and mail this card to Yamaha **today**.

Name:

ATV Model:

Purchase Date:

Address:

Primary I.D. (Engine Number):

MO. DAY YR.

Telephone:

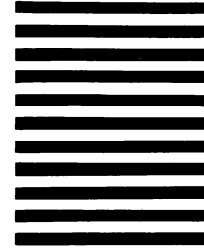
Dealer Name & Address:

CAREFULLY
READ

This is not a
warranty card



NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES



YAMAHA MOTOR CORPORATION U.S.A.
P.O. BOX 6555
CYPRESS, CALIFORNIA 90630-9989

ATTN: SALES ADMINISTRATION



AFFIX DEALER

LABEL HERE

EAA00000

XV250K/XV250KC

OWNER'S MANUAL

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P/N LIT-11626-11-08

INTRODUCTION

Congratulations on your purchase of the Yamaha XV250/XV250C. This model is the result of Yamaha's vast experience in the production of fine sporting, touring, and pacesetting racing machines. It represents the high degree of craftsmanship and reliability that have made Yamaha a leader in these fields.

This manual will give you an understanding of the operation, inspection, and basic maintenance of this motorcycle. If you have any questions about the operation or maintenance of your motorcycle, please consult a Yamaha dealer.

The design and manufacture of this Yamaha motorcycle fully comply with the emissions standards for clean air applicable at the date of manufacture. Yamaha has met these standards without reducing the motorcycle's performance or economy of operation. To maintain these high standards, it is important that you and your dealer pay close attention to the recommended maintenance schedules and operating instructions contained within this manual.

IMPORTANT MANUAL INFORMATION

Particularly important information is distinguished in this manual by the following notations:



The Safety Alert Symbol means **ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!**



WARNING

Failure to follow **WARNING** instructions could result in severe injury or death to the motorcycle operator, a bystander or a person inspecting or repairing the motorcycle.

CAUTION:

A **CAUTION** indicates special precautions that must be taken to avoid damage to the motorcycle.

NOTE:

A **NOTE** provides key information to make procedures easier or clearer.

NOTE:

- This manual should be considered a permanent part of this motorcycle and should remain with it even if the motorcycle is subsequently sold.
- Yamaha continually seeks advancements in product design and quality. Therefore, while this manual contains the most current product information available at the time of printing, there may be minor discrepancies between your motorcycle and this manual. If there is any question concerning this manual, please consult your Yamaha dealer.

EUU60001

 WARNING

PLEASE READ THIS MANUAL AND THE "YOU AND YOUR MOTORCYCLE: RIDING TIPS" BOOKLET CAREFULLY AND COMPLETELY BEFORE OPERATING THIS MOTORCYCLE. DO NOT ATTEMPT TO OPERATE THIS MOTORCYCLE UNTIL YOU HAVE ATTAINED A SATISFACTORY KNOWLEDGE OF ITS CONTROLS AND OPERATING FEATURES AND UNTIL YOU HAVE BEEN TRAINED IN SAFE AND PROPER RIDING TECHNIQUES. REGULAR INSPECTIONS AND CAREFUL MAINTENANCE, ALONG WITH GOOD RIDING SKILLS, WILL ENSURE THAT YOU SAFELY ENJOY THE CAPABILITIES AND THE RELIABILITY OF THIS MOTORCYCLE.

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SAFETY INFORMATION

TWO-WHEELED MOTORCYCLES ARE SINGLE TRACK VEHICLES. THEIR SAFE USE AND OPERATION ARE DEPENDENT UPON THE USE OF PROPER RIDING TECHNIQUES AS WELL AS THE EXPERTISE OF THE OPERATOR. EVERY OPERATOR SHOULD KNOW THE FOLLOWING REQUIREMENTS BEFORE RIDING.

HE OR SHE SHOULD:

- 1. OBTAIN THOROUGH INSTRUCTIONS FROM A COMPETENT SOURCE ON ALL ASPECTS OF MOTORCYCLE OPERATION.**
- 2. OBSERVE THE WARNINGS AND MAINTENANCE REQUIREMENTS IN THE OWNER'S MANUAL.**
- 3. OBTAIN QUALIFIED TRAINING IN SAFE AND PROPER RIDING TECHNIQUES.**
- 4. OBTAIN PROFESSIONAL TECHNICAL SERVICE AS INDICATED BY THE OWNER'S MANUAL AND/OR WHEN MADE NECESSARY BY MECHANICAL CONDITIONS.**

SAFE RIDING

- 1. Always make pre-operation checks. Careful checks may help prevent an accident.**
- 2. This motorcycle is designed to carry the operator and a passenger.**

- 3. The failure of motorists to detect and recognize motorcycles in traffic is the predominating cause of automobile/motorcycle accidents. Many accidents have been caused by an automobile driver who did not see the motorcycle. Making yourself conspicuous appears to be very effective in reducing the chance of this type of accident.**

Therefore:

- a. Wear a brightly colored jacket.**
 - b. Use extra caution when you approach and pass through intersections, since intersections are the most likely places for motorcycle accidents.**
 - c. Ride where other motorists can see you. Avoid riding in another motorist's "blind spot".**
- 4. Many accidents involve inexperienced operators. In fact, many operators who have been involved in accidents do not even have a current motorcycle license.**
- a. Make sure you are qualified. Also, only lend your motorcycle to experienced operators.**
 - b. Know your skills and limits. Staying within your limits may help you to avoid an accident.**
 - c. We recommend that you practice riding your motorcycle where there is no traffic until you have become thoroughly familiar with your motorcycle and all of its controls.**

5. **Many motorcycle accidents have been caused by motorcycle operator errors. A typical error made by the operator is veering wide on a turn due to EXCESSIVE SPEED or undercornering (insufficient lean angle for the speed).**
 - a. **Always obey the speed limits and never travel faster than warranted by road and traffic conditions.**
 - b. **Always signal before turning or changing lanes. Make sure other motorists see you.**
6. **The operator's and passenger's posture are important for proper control.**
 - a. **The operator should keep both hands on the handlebars and both feet on the operator footrests during operation to maintain control of the motorcycle.**
 - b. **The passenger should always hold on to the operator, or the seat strap or grab bar if the motorcycle is so equipped, with both hands and keep both feet on the passenger footrests.**
 - c. **Never carry a passenger unless he or she can firmly place both feet on the passenger footrests.**
7. **Never ride under the influence of alcohol or drugs.**
8. **This motorcycle is designed for on-road use only. It is not suitable for off-road use.**

PROTECTIVE APPAREL

The majority of fatalities from motorcycle accidents are the result of head injuries. The use of a safety helmet is the single most critical factor in the prevention or reduction of head injuries.

- 1. Always wear an approved helmet.**
- 2. Wear a face shield or goggles. Wind on your unprotected eyes could contribute to an impairment of vision which could delay seeing a hazard.**
- 3. The use of heavy boots, jacket, trousers, gloves, etc. is effective in preventing or reducing abrasions or lacerations.**
- 4. Never wear loose fitting clothing. It could catch on the control levers, footrests, or wheels and cause injury or accident.**
- 5. Never touch the engine or exhaust system during or after operation. They become very hot and can cause burns. Always wear protective clothing that covers your legs, ankles, and feet.**
- 6. A passenger should also observe the above precautions.**

MODIFICATION

Modifications made to the motorcycle not approved by Yamaha, or the removal of original equipment, may render your motorcycle unsafe for use and may cause severe personal injury. Modifications may also make your motorcycle illegal to use.

LOADING AND ACCESSORIES

Adding accessories or cargo to your motorcycle can adversely affect stability and handling if the weight distribution of the machine is changed. To avoid the possibility of an accident, extreme caution should be used if adding cargo or accessories to your motorcycle. Use extra care if riding a motorcycle which has added cargo or accessories. Here are some general guidelines to follow if loading cargo or adding accessories to your motorcycle:

LOADING

The total weight of the operator, passenger, accessories and cargo must not exceed the maximum load limit of XV250 431 lb. (196 kg)/XV250C 429 lb. (195 kg).

When loading within these weight limits, keep the following in mind:

- 1. Cargo and accessory weight should be kept as low and close to the motorcycle as possible. Be sure to distribute the weight as evenly as possible on both sides of the machine to minimize imbalance or instability.**
- 2. Shifting weights can create a sudden imbalance. Make sure that accessories and cargo are securely attached to the motorcycle before riding. Recheck accessory mounts and cargo restraints frequently.**
- 3. Never attach any large or heavy items to the handlebars, front forks, or front fender. These items, including such cargo as sleeping bags, duffle bags, or tents, can create unstable handling or slow steering response.**

ACCESSORIES

Genuine Yamaha accessories have been specifically designed for use on this motorcycle. Since Yamaha cannot test all other accessories which may be available, you must personally be responsible for the proper selection, installation and use of non-Yamaha accessories. You should use extreme caution when selecting and installing any accessories.

Keep in mind these guidelines for mounting accessories in addition to those provided under "LOADING".

- 1. Never install accessories or carry cargo that would impair the performance of your motorcycle. Carefully inspect the accessory before using it to make sure it does not in any way reduce ground clearance or cornering clearance, limit suspension travel, steering travel or control operation, or obscure lights or reflectors.**
 - a. Accessories fitted to the handlebar or the front fork area can create instability due to improper weight distribution or aerodynamic changes. If accessories are added to the handlebar or front fork area, they must be as lightweight as possible and should be kept to a minimum.**
 - b. Bulky or large accessories may seriously affect the stability of the motorcycle due to aerodynamic effects. Wind may attempt to lift the motorcycle, or the motorcycle may become unstable in cross winds. These accessories may also cause instability when being passed by or passing large vehicle.**
 - c. Certain accessories can displace the operator from his or her normal riding position. This improper position limits the freedom of movement of the operator and may limit control ability. Therefore such accessories are not recommended.**
- 2. Caution must be used if adding electrical accessories. If these accessories exceed the capacity of the motorcycle's electrical system, an electric failure could result, which could cause a dangerous loss of lights or engine power.**

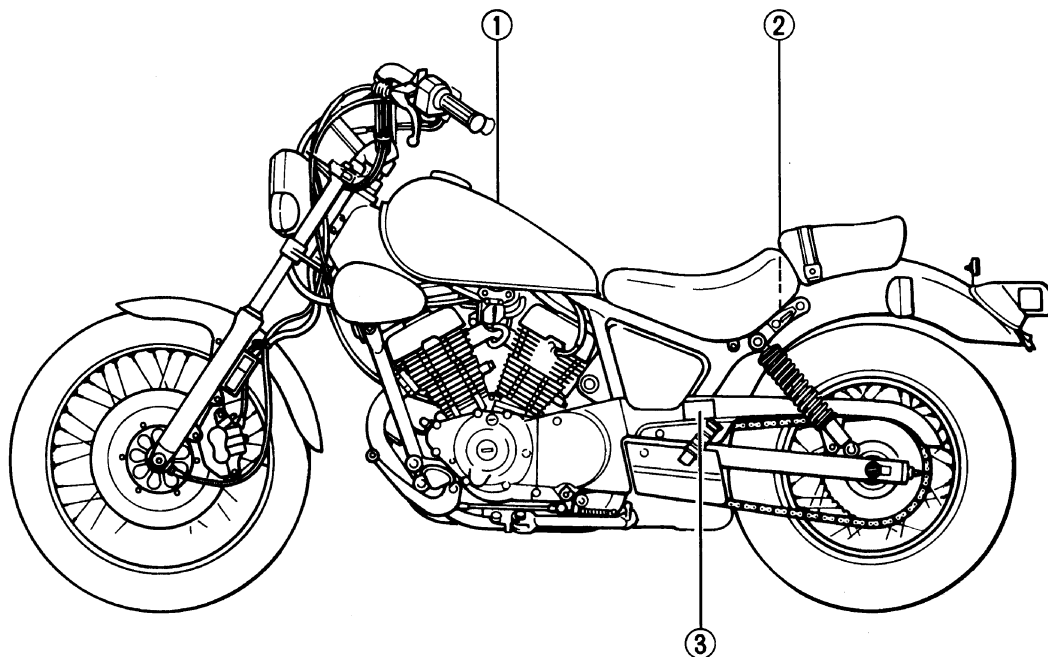
GASOLINE AND EXHAUST GAS

- 1. GASOLINE IS HIGHLY FLAMMABLE:**
 - a. Always turn off the engine when refueling.**
 - b. Take care not to spill any gasoline on the engine or exhaust pipe(s)/muffler(s) when refueling.**
 - c. Never refuel while smoking or in the vicinity of an open flame.**
- 2. Never start the engine or let it run for any length of time in a closed area. The exhaust fumes are poisonous and may cause loss of consciousness and death within a short time. Always operate your motorcycle in an area that has adequate ventilation.**
- 3. Always turn off the engine before leaving the motorcycle unattended and remove the ignition key. When parking the motorcycle, note the following:**
 - a. The engine and exhaust pipe(s)/muffler(s) may be hot. Park the motorcycle in a place where pedestrians or children are not likely to touch these hot areas.**
 - b. Do not park the motorcycle on a slope or soft ground; the motorcycle may fall over.**
 - c. Do not park the motorcycle near a flammable source, e.g. a kerosene heater, or near an open flame. The motorcycle could catch fire.**

- 4. When transporting the motorcycle in another vehicle, be sure it is kept upright and that the fuel cock(s) is turned to "ON" or "RES" (for vacuum type)/"OFF" (for manual type). If it should lean over, gasoline may leak out of the carburetor or fuel tank.**
- 5. If you should swallow any gasoline, inhale a lot of gasoline vapor, or allow gasoline to get in your eye(s), see your doctor immediately. If any gasoline spills on your skin or clothing, immediately wash it off with soap and water and change your clothes.**

LOCATION OF THE IMPORTANT LABELS

Please read the following labels carefully before operating this motorcycle.



①

▲ WARNING

- **BEFORE YOU OPERATE THIS VEHICLE, READ THE OWNER'S MANUAL AND ALL LABELS.**
- **ALWAYS WEAR AN APPROVED MOTORCYCLE HELMET, eye protection, and protective clothing.**

YAMAHA

3MX-2118K-00

②

CAUTION

- Read owner's manual before servicing battery.
- Electrolyte will damage metal parts or paint.
If electrolyte spills, wash area with fresh water immediately.
- Be sure to connect breather hose after installing battery.

YAMAHA

3JL-28177-00

③

TIRE INFORMATION

Cold tire normal pressure should be set as follows.

- Up to 90 kg (198 lbs) load

FRONT : 175 kPa, {1.75 kgf/cm²}, 25 psi

REAR : 200 kPa, {2.00 kgf/cm²}, 29 psi

- 90 kg (198 lbs) ~ maximum load

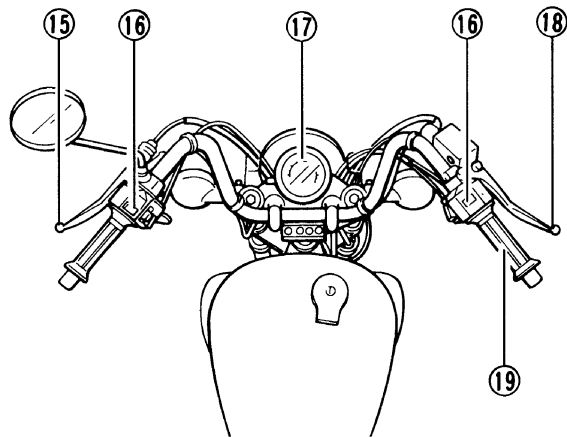
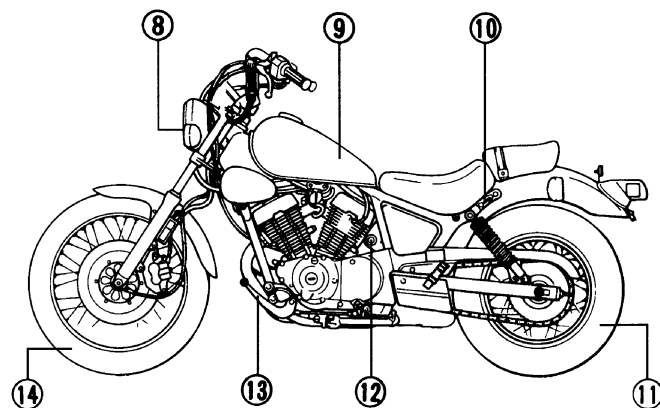
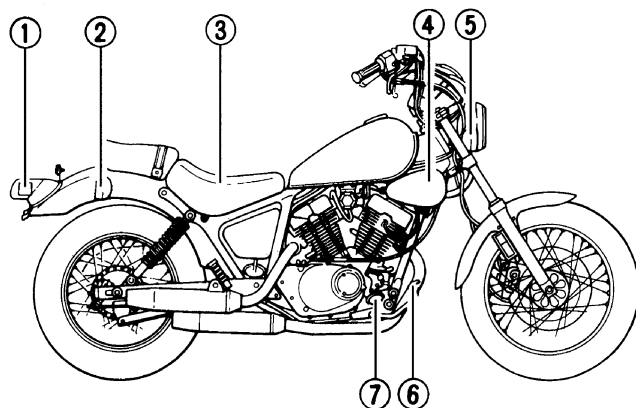
FRONT : 200 kPa, {2.00 kgf/cm²}, 29 psi

REAR : 225 kPa, {2.25 kgf/cm²}, 33 psi

YAMAHA

3CK-21668-00

DESCRIPTION



- | | |
|---------------------------------|------------------------|
| 1. Tail/Brake light | 11. Rear wheel |
| 2. Rear flasher light | 12. Main switch |
| 3. Seat | 13. Shift pedal |
| 4. Air filter | 14. Front wheel |
| 5. Front flasher/position light | 15. Clutch lever |
| 6. Brake pedal | 16. Handlebar switches |
| 7. Footrest | 17. Speedometer |
| 8. Headlight | 18. Brake lever |
| 9. Fuel tank | 19. Throttle grip |
| 10. Helmet holder | |

MOTORCYCLE IDENTIFICATION

EAA61800

Identification numbers record

Record the key identification number, vehicle identification number and model label information in the spaces provided for assistance when ordering spare parts from a Yamaha dealer or for reference in case the vehicle is stolen.

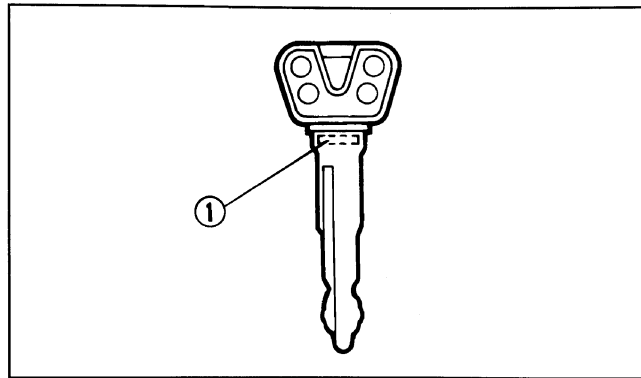
1. KEY IDENTIFICATION NUMBER:

2. VEHICLE IDENTIFICATION NUMBER:

3. MODEL LABEL INFORMATION:

Key identification number

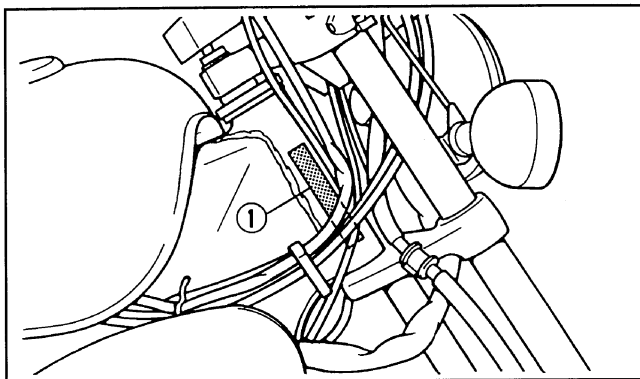
The key identification number is stamped on the key. Record this number in the space provided and use it for reference when obtaining a new key.



1. Key identification number

Vehicle identification number

The vehicle identification number is stamped into the steering head pipe.



1. Vehicle identification number

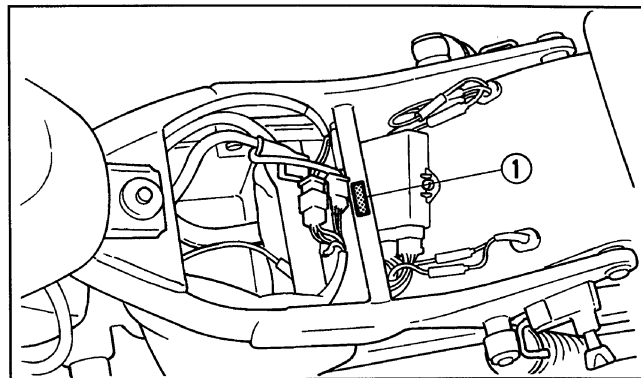
EUU00400

NOTE:

The vehicle identification number is used to identify your motorcycle and may be used to register your motorcycle with the licensing authority in your state.

Model label

The model label is affixed to the frame. Record the information on this label in the space provided. This information will be needed to order spare parts from your Yamaha dealer.



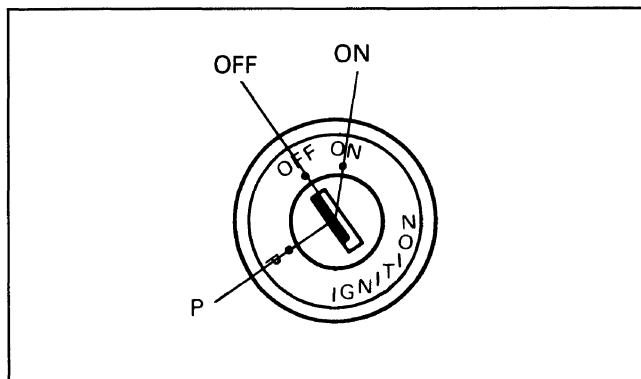
1. Model label

CONTROL FUNCTIONS

EAB00100

Main switch

The main switch controls the ignition and lighting systems. Its operation is described below.



EAB04800

ON:

All electrical circuits are switched on, and the headlight, meter light, taillight, and front position lights come on. The engine can be started. The key cannot be removed in this position.

EAB00600

OFF:

All electrical circuits are switched off. The key can be removed in this position.

EAB01602

P (Parking)

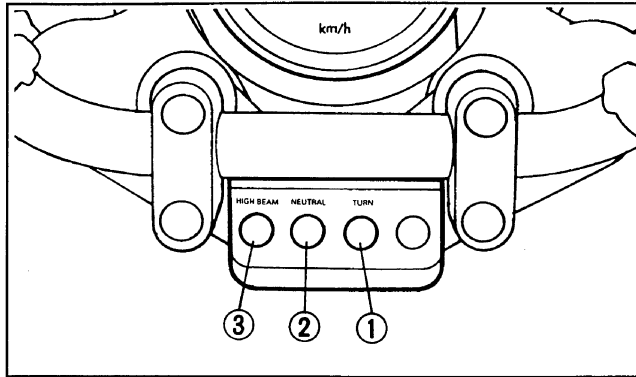
The taillight and front position light come on but all other circuits are off. With the key at "OFF", push it into the main switch, turn it counterclockwise to "P", and remove it. To cancel the parking, turn the key clockwise.

EUU08800

NOTE: _____

Always turn the main switch to "OFF" and remove the key when the motorcycle is unattended.

Indicator lights



1. Turn indicator light "TURN"
2. Neutral indicator light "NEUTRAL"
3. High beam indicator light "HIGH BEAM"

Turn indicator light "TURN"

This indicator flashes when the turn switch is moved to the left or right.

EAB10201

Neutral indicator light "NEUTRAL"

This indicator comes on when the transmission is in neutral.

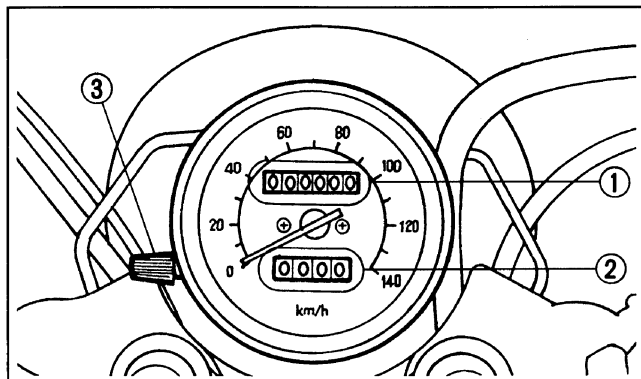
EAB10301

High beam indicator light "HIGH BEAM"

This indicator comes on when the headlight high beam is used.

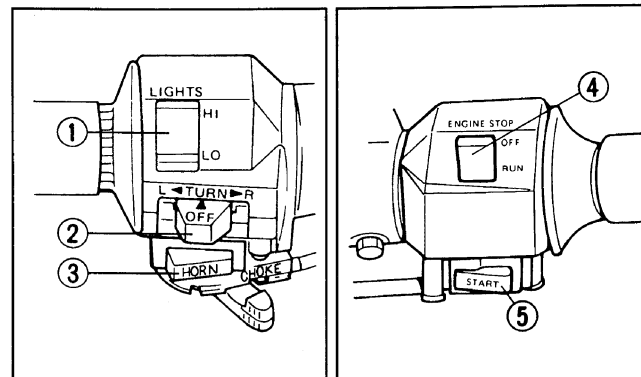
Speedometer

The speedometer shows riding speed. This speedometer is equipped with an odometer and trip odometer. The trip odometer can be reset to "0" with the reset knob. Use the trip odometer to estimate how far you can ride on a tank of fuel. This information will enable you to plan fuel stops in the future.



1. Odometer
2. Trip odometer
3. Reset knob

Handlebar switches



1. Dimmer switch "LIGHTS"
2. Turn signal switch "TURN"
3. Horn switch "HORN"
4. Engine stop switch "ENGINE STOP"
5. Start switch "START"

EAB60101

Dimmer switch "LIGHTS"

Turn the switch to "HI" for the high beam and to "LO" for the low beam.

Turn signal switch "TURN"

To signal a right-hand turn, push the switch to the right. To signal a left-hand turn, push the switch to the left. Once the switch is released it will return to the center position. To cancel the signal, push the switch in after it has returned to the center position.

EAB60201

Horn switch "HORN"

Press the switch to sound the horn.

EAB60902

Engine stop switch "ENGINE STOP"

The engine stop switch is a safety device for use in an emergency such as when the motorcycle overturns or if trouble occurs in the throttle system. Turn the switch to "RUN" to start the engine. In case of emergency, turn the switch to "OFF" to stop the engine.

Start switch "START"

The starter motor cranks the engine when pushing the start switch.

EUU30700

CAUTION:

See starting instructions prior to starting the engine.

EAB70003

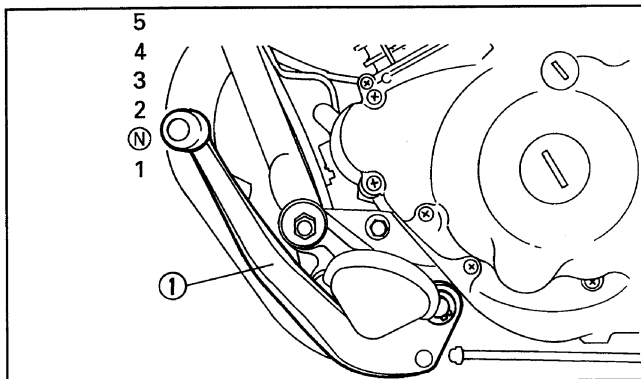
Clutch lever

The clutch lever is located on the left handlebar, and the ignition circuit cut-off system is incorporated in the clutch lever holder. Pull the clutch lever to the handlebar to disengage the clutch, and release the lever to engage the clutch. The lever should be pulled rapidly and released slowly for smooth clutch operation. (Refer to the engine starting procedures for a description of the ignition circuit cut-off system.)

Shift pedal

This motorcycle is equipped with a constant-mesh 5-speed transmission.

The shift pedal is located on the left side of the engine and is used in combination with the clutch when shifting.



1. Shift pedal

N. Neutral

Front brake lever

The front brake lever is located on the right handlebar. Pull it toward the handlebar to apply the front brake.

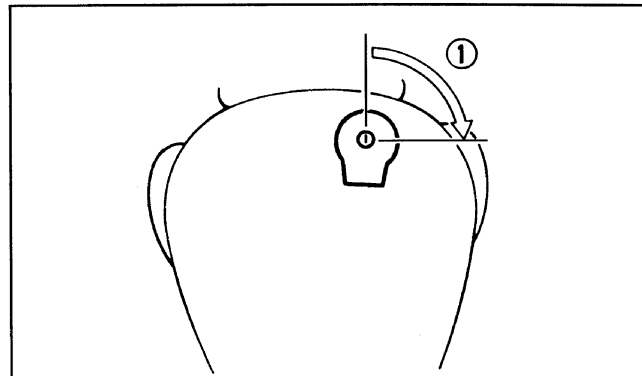
Rear brake pedal

The rear brake pedal is on the right side of the motorcycle. Press down on the brake pedal to apply the rear brake.

Fuel tank cap

TO OPEN:

Insert the key and turn it 1/4 turn clockwise. The lock will be released and the cap can be opened.



1. Open

TO CLOSE:

Push the tank cap into position with the key inserted. To remove the key, turn it counterclockwise to the original position.

EUU01200

NOTE:

This tank cap cannot be closed unless the key is in the lock. The key cannot be removed if the cap is not locked properly.

EUU61100

 WARNING

Be sure the cap is properly installed and locked in place before riding the motorcycle.

Fuel cock

The negative pressure fuel cock supplies fuel from the tank to the carburetor while filtering it also.

The fuel cock has the following three positions:

ON: With the lever in this position, fuel flows if the engine is running, but stops if the engine is not running.

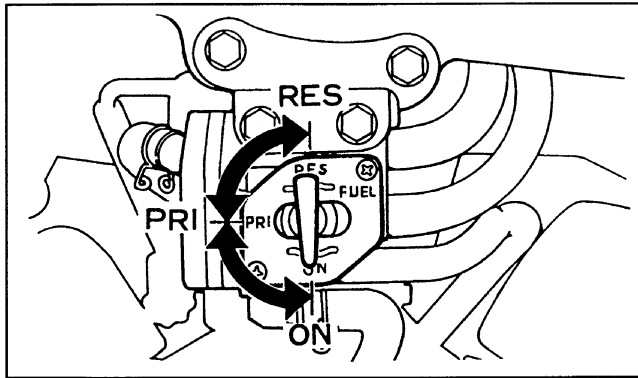
RES: This indicates reserve. If you run out of fuel while riding, move the lever to "PRI", start the engine, then move the lever to "RES". **FILL THE TANK AT THE FIRST OPPORTUNITY. BE SURE TO MOVE THE LEVER TO "ON" AFTER REFUELING.**

EUU01400

NOTE:

The fuel cock operates on vacuum from the engine when set at "ON" or "RES". If the line connecting the cock to the carburetor intake manifold is not connected or has a leak, the cock will not function properly.

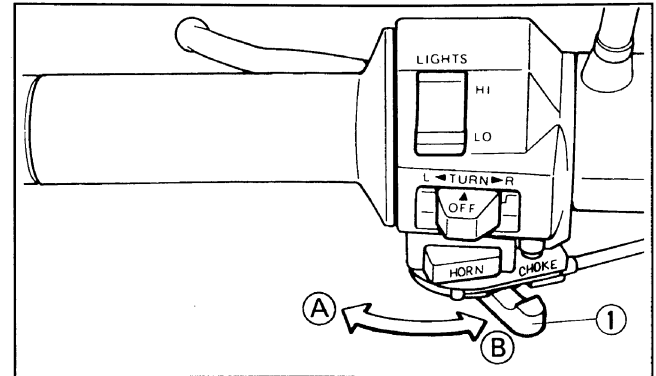
PRI: This indicates prime. With the lever in this position, fuel flows whether the engine is running or not. If the fuel tank is completely empty, refill the tank and move the lever to "PRI" to prime the carburetor. Move the lever to "ON" after starting the engine.



Starter "CHOKE"

Starting a cold engine requires a richer air-fuel mixture. A separate starter circuit supplies this mixture.

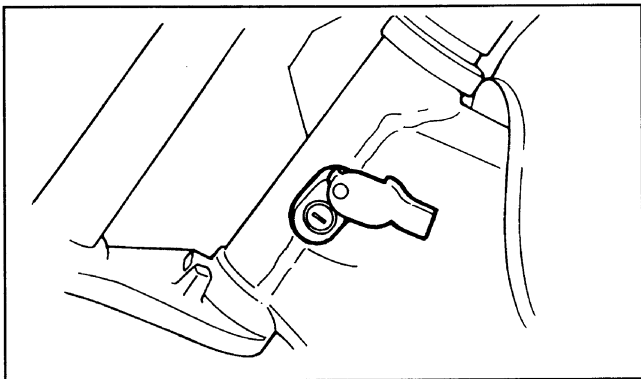
Move in direction ① to turn on the starter. Move in direction ② to turn off the starter.



1. Starter "CHOKE"

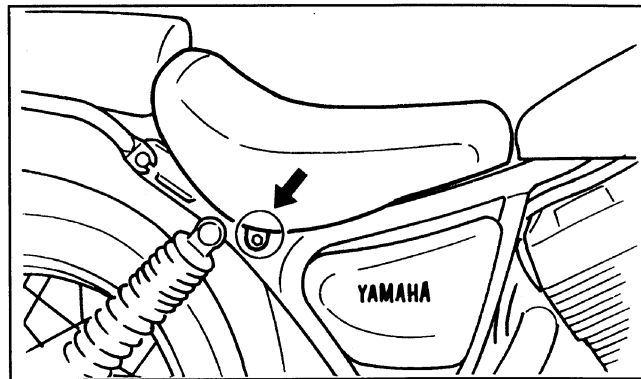
Steering lock

To lock the steering, turn the handlebars all the way to the right. Open the steering lock cover, turn the key 1/8 counterclockwise then push the key in and turn it 1/8 turn clockwise. After checking to see that the steering is locked, remove the key from the lock and close the cover. To release the lock, reverse the above procedure.



Seat

To remove the rider seat, remove the bolts.

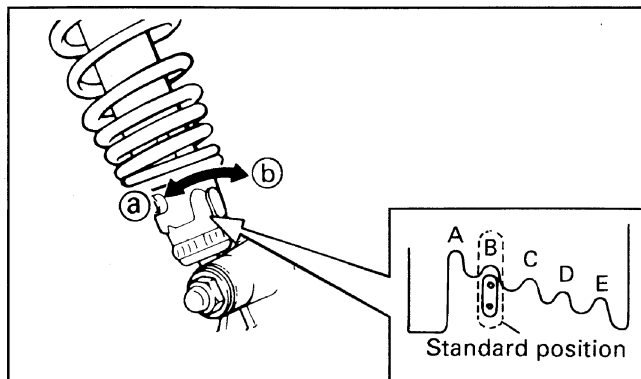


Rear shock absorber adjustment

Each shock absorber is equipped with a spring preload adjuster.

Adjust spring preload as follows.

Turn adjuster in direction ① to increase spring preload and in direction ② to decrease spring preload.



a. Harder

b. Softer

WARNING

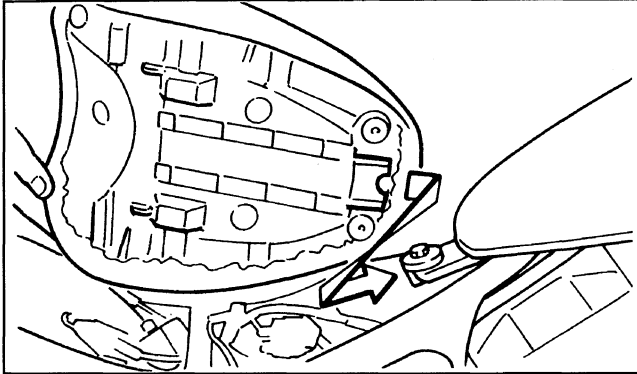
Always adjust each shock absorber to the same setting. Uneven adjustment can cause poor handling and loss of stability.

EUU20700

NOTE:

Ask a Yamaha dealer to make this adjustment.

When reinstalling the rider seat, insert the lobe on the seat front under the frame, then tighten the bolts.



EUU01700

NOTE:

Make sure that the seat is securely fitted.

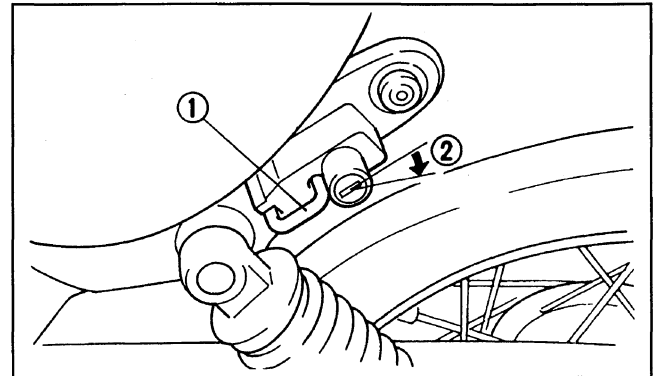
Helmet holder

To open the helmet holder, insert the key in the lock and turn it as shown. To lock the helmet holder, replace the holder in its original position.

EUU72900

! WARNING

Never ride with a helmet in the helmet holder. The helmet may hit objects, causing loss of control and possibly an accident.



1. Helmet holder

2. Open

Sidestand

This model is equipped with an ignition circuit cut-off system. The motorcycle must not be ridden when the sidestand is down. The sidestand is located on the left side of the frame. (Refer to page 7-2 for an explanation of this system.)

EUU68901

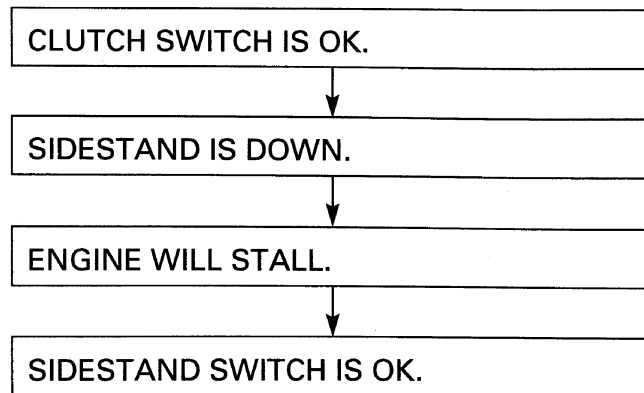
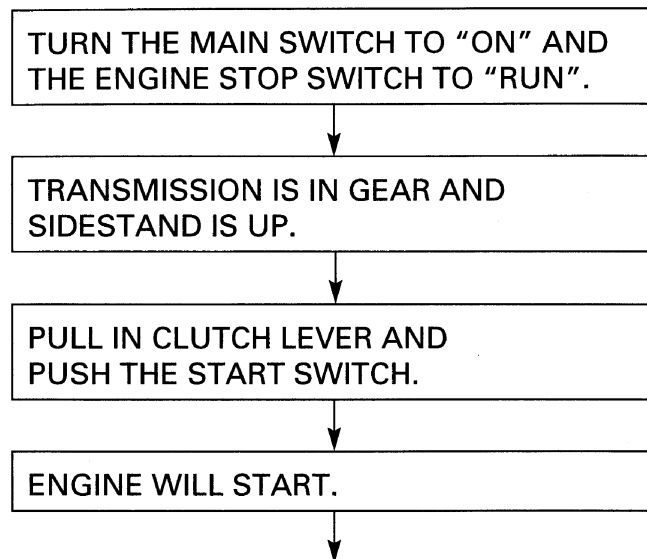


WARNING

This motorcycle must not be operated with the sidestand in the down position. If the stand is not properly retracted, it could contact the ground and distract the operator, resulting in a possible loss of control. Yamaha has designed into this motorcycle a lockout system to assist the operator in fulfilling the responsibility of retracting the sidestand. Please check carefully the operating instructions listed below and if there is any indication of a malfunction, return the motorcycle to a Yamaha dealer immediately for repair.

Sidestand/clutch switch operation check

Check the operation of the sidestand switch and clutch switch against the information below.



EUU69100

** WARNING**

If improper operation is noted, consult a Yamaha dealer immediately.

PRE-OPERATION CHECKS

Before using this motorcycle, check the following points:

NO.	ITEM	ROUTINE	PAGE
1	Front brake	• Check operation, free play, fluid level and fluid leakage. • Fill with DOT 4 (or DOT 3) brake fluid if necessary.	6-3 ~ 6-4, 8-17 ~ 8-23
2	Rear brake	• Check operation, condition and free play. • Adjust if necessary.	
3	Clutch	• Check operation, condition and free play. • Adjust if necessary.	6-4, 8-23 ~ 8-24
4	Engine oil	• Check engine oil level, fill with oil if necessary.	6-4 ~ 6-5, 8-11 ~ 8-14
5	Drive chain	• Check chain slack and condition. • Adjust if necessary.	6-5, 8-24 ~ 8-27
6	Throttle	• Check for smooth operation. • Adjust if necessary.	6-4, 8-28
7	Battery	• Check fluid level, fill with distilled water if necessary.	6-9, 8-31 ~ 8-33
8	Lights, signals and switches	• Check operation.	6-9, 8-34 ~ 8-35
9	Wheels/Tires	• Check tire pressure, wear, damage and spoke tightness.	6-5 ~ 6-8, 8-36 ~ 8-40
10	Chassis fasteners	• Check all chassis fittings and fasteners. • Adjust if necessary.	6-9

NOTE:

Pre-operation checks should be made each time the motorcycle is used. Such an inspection can be thoroughly accomplished in a very short time, and the added safety it assures is more than worth the time involved.

**WARNING**

1. The engine, exhaust pipe(s) and muffler(s) will be very hot after the engine has been run. Be careful not to touch them or to allow any clothing item to contact them during inspection or repair.
 2. If any item in the PRE-OPERATION CHECK is not working properly, have it inspected and repaired before operating the motorcycle.
-

Brakes

1. Brake lever and brake pedal

Check for correct free play in the front brake lever and rear brake pedal and adjust if necessary. Make sure the brakes are working properly by checking at low speed shortly after starting out. (see page 8-17 for details.)

EUU62300



A soft, spongy feeling in the brake lever indicates a failure in the brake system. Do not operate the motorcycle until the failure in the brake system is corrected. Ask a Yamaha dealer for immediate repairs. A soft, spongy feeling could indicate a hazardous condition in the brake system.

2. Brake fluid

Check the brake fluid level. Fill the master cylinder with brake fluid if necessary.

Recommended brake fluid: DOT 4

EUU13100

NOTE: _____
If DOT 4 is not available, DOT 3 can be used.

3. Check the disc pads.

Refer to page 8-21.

4. Check the brake shoes.

Refer to page 8-21.

EUU02201

NOTE: _____
When this brake service is necessary, consult a Yamaha dealer.

Brake fluid leakage (Front)

Apply the brake for a few minutes. Check to see if any brake fluid leaks out from the pipe joints or the master cylinder.

EUU37801

CAUTION:

Brake fluid may deteriorate painted surfaces or plastic parts. Never spill any fluid. If spilled, clean it up immediately.

EUU62500

⚠ WARNING

If brake fluid leakage is found, ask a Yamaha dealer for immediate repairs. Such leakage could indicate a hazardous condition.

Clutch

Check the free play in the clutch lever, and make sure the clutch operates properly. If the free play is incorrect, adjust it. (See page 8-23 for details)

EAE30101

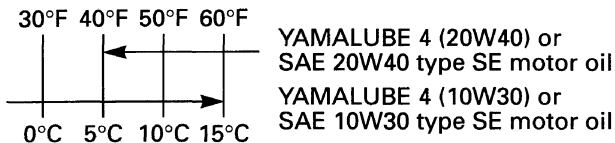
Throttle grip

Turn the throttle grip to see if it operates properly, and check the throttle cable free play. (See page 8-28 for details.) Make sure the grip returns by spring force when released. Ask a Yamaha dealer to make any necessary adjustments.

EAE40003

Engine oil

Make sure the engine oil is at the specified level. Fill with oil as necessary. (See page 8-11 for details.)

Recommended oil:**Recommended engine oil classification:**

API Service "SE", "SF" type or
 equivalent

(e.g. "SF-SE", "SF-SE-CC",
 "SF-SE-SD" etc.)

Oil quantity:

Total amount:

1.8 L (1.6 Imp qt, 1.9 US qt)

Periodic oil change:

1.4 L (1.2 Imp qt, 1.5 US qt)

With oil filter replacement:

1.6 L (1.4 Imp qt, 1.7 US qt)

Chain

Check the general condition of the chain and the chain slack before every ride. Lubricate and adjust the chain as necessary. (See page 8-24 for details)

EAE90102

Tires

To ensure maximum performance, long service, and safe operation, note the following:

1. Tire air pressure

Always check and adjust the tire pressure before operating the motorcycle.

⚠ WARNING

Tire inflation pressure should be checked and adjusted when the temperature of the tire equals the ambient air temperature. Tire inflation pressure must be adjusted according to total weight of cargo, rider, passenger, and accessories (fairing, saddlebags, etc. if approved for this model), and vehicle speed.

Basic weight: With oil and full fuel tank	147 kg (324 lb): XV250	
	148 kg (326 lb): XV250C	
Maximum load*:	196 kg (431 lb): XV250	
	195 kg (429 lb): XV250C	
Cold tire pressure:	Front	Rear
Up to 90 kg (198 lb) load*	175 kPa (1.75 kgf/cm ² , 25 psi)	200 kPa (2.0 kgf/cm ² , 29 psi)
90 kg (198 lb) load ~ Maximum load*	200 kPa (2.0 kgf/cm ² , 29 psi)	225 kPa (2.25 kgf/cm ² , 33 psi)

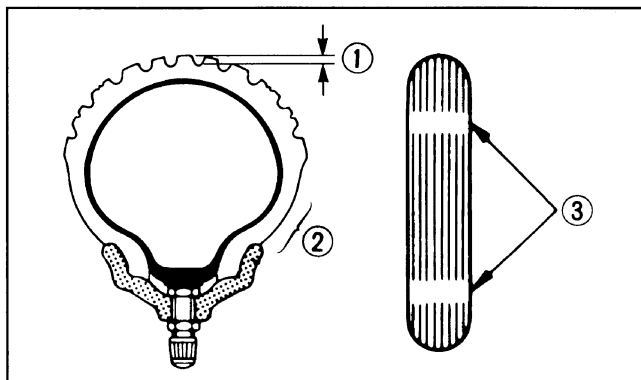
* Load is the total weight of cargo, rider, passenger, and accessories.

⚠ WARNING

Proper loading of your motorcycle is important for several characteristics of your motorcycle, such as handling, braking, performance and safety. Do not carry loosely packed items that can shift. Securely pack your heaviest items close to the center of the motorcycle, and distribute the weight evenly from side to side. Properly adjust the suspension for your load, and check the condition and pressure of your tires. **NEVER OVERLOAD YOUR MOTORCYCLE.** Make sure the total weight of the cargo, rider, passenger, and accessories (fairing, saddlebags, etc. if approved for this model) does not exceed the maximum load of the motorcycle. Operation of an overloaded motorcycle could cause tire damage, an accident, or even injury.

2. Tire inspection

Always check the tires before operating the motorcycle. If a tire tread shows crosswise lines (minimum tread depth), if the tire has a nail or glass fragments in it, or if the side wall is cracked, contact a Yamaha dealer immediately and have the tire replaced.



1. Tread depth
3. Wear indicator

2. Side wall

FRONT:

Manufacturer	Size	Type
Cheng shin	3.00-18 47P	C-916

REAR:

Manufacturer	Size	Type
Cheng shin	130/90-15M/C 66P	C-915

Minimum tire tread depth (front and rear)	1.0 mm (0.04 in)
--	------------------

EUU70001

! WARNING

1. **Operating the motorcycle with excessively worn tires decrease riding stability and can lead to loss of control. Have excessively worn tires replaced by a Yamaha dealer immediately. Brakes, tires, and related wheel parts replacement should be left to a Yamaha Service Technician.**
2. **Patching a punctured tube is not recommended. If it is absolutely necessary to do so, use great care and replace the tube as soon as possible with a good quality replacement.**

Wheels

To ensure maximum performance, long service, and safe operation, note the following:

1. Always inspect the wheels before a ride. Check for cracks, bends, or warpage of the wheel; be sure the spokes are tight and undamaged. If any abnormal condition exists in a wheel, consult a Yamaha dealer. Do not attempt even small repairs to the wheel. If a wheel is deformed or cracked, it must be replaced.
2. Tires and wheels should be balanced whenever either one is changed or replaced. Failure to have a wheel balanced can result in poor performance, adverse handling characteristics, and shortened tire life.

3. After installing a tire, ride conservatively to allow the tire to seat itself on the rim properly. Failure to allow proper seating may cause tire failure, resulting in damage to the motorcycle and injury to the rider.

EAE93900

Accessories or replacement parts

EUU69700

WARNING

This motorcycle is not designed to pull a trailer or to be attached to a sidecar. The accessories or replacement parts you choose for your motorcycle should be designed specifically for it, and they must be securely mounted to maintain the inherent stability of the original design. Genuine Yamaha Parts and Accessories are designed and tested to be compatible with your motorcycle. Please consider Genuine Yamaha Parts and Accessories

before making an accessory purchase. Use of non-Yamaha-approved parts or accessories may cause loss of handling stability and riding safety. Since Yamaha cannot control the quality of parts or accessories manufactured by other companies, Yamaha cannot be held liable for any consequences caused by the use of items which have not been approved by Yamaha.

EAE85101

Chassis fasteners

Always check the tightness of all chassis nuts, bolts and screws before a ride. Take the motorcycle to a Yamaha dealer or refer to the Service Manual for correct tightening torque.

EAE71500

Lights, signals and switches

Check all the lights, meter lights and indicator lights to make sure they are in working condition.

Check the operation of the handlebar switches and main switch.

EAE70501

Battery

Check the fluid level and fill if necessary. Use only distilled water if refilling is necessary. (see page 8-31 for details)

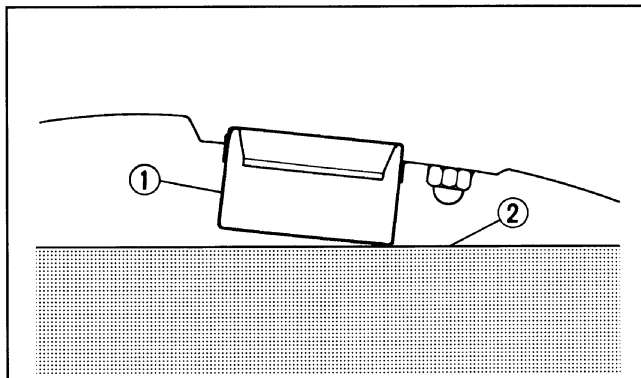
Fuel

Make sure there is sufficient fuel in the tank.

EUU61000

WARNING

Do not overfill the fuel tank. Avoid spilling fuel on the hot engine. Do not fill the fuel tank above the bottom of the filler tube as shown in the illustration or it may overflow when the fuel heats up later and expands.



1. Filler tube

2. Fuel level

CAUTION:

Always wipe off spilled fuel immediately with a dry and clean soft cloth. Fuel may deteriorate painted surfaces or plastic parts.

EAE81701

Recommended fuel:

UNLEADED FUEL

Fuel tank capacity:

Total:

XV250

9.5 L (2.1 Imp gal, 2.5 US gal)

XV250C

9.2 L (2.0 Imp gal, 2.4 US gal)

Reserve:

2.6 L (0.6 Imp gal, 0.7 US gal)

Your Yamaha engine has been designed to use regular unleaded gasoline with a pump octane number $([R+M]/2)$ of 86 or higher, or research octane number of 91 or higher. If knocking or pinging occurs, use a different brand of gasoline or premium unleaded fuel. Unleaded fuel will give you longer spark plug life and reduced maintenance cost. If unleaded gasoline is not available, then leaded regular gasoline can be used.

Gasohol

There are two types of gasohol; gasohol containing ethanol and that containing methanol. Gasohol containing ethanol can be used if ethanol content does not exceed 10%. Gasohol containing methanol is not recommended by Yamaha because it can cause fuel system damage or vehicle performance problems.

OPERATION AND IMPORTANT RIDING POINTS

EUU67201

WARNING

1. Before riding this motorcycle, become thoroughly familiar with all operating controls and their functions. Consult a Yamaha dealer regarding any control or function that you do not thoroughly understand.
2. Never start your engine or let it run for any length of time in a closed area. The exhaust fumes are poisonous and can cause loss of consciousness and death within a short time. Always operate your motorcycle in an area with adequate ventilation.

3. Before starting out, always be sure the sidestand is up. Failure to retract the sidestand completely can result in a serious accident when you try to turn a corner.

EUU31100

CAUTION:

1. Be careful where you store personal items on the motorcycle. Avoid blocking the air cleaner intake or performance will suffer.
2. Be careful not to put anything near the battery and its terminals. Electrical failure and acid corrosion may result.

Starting and warming up a cold engine

EUU02801

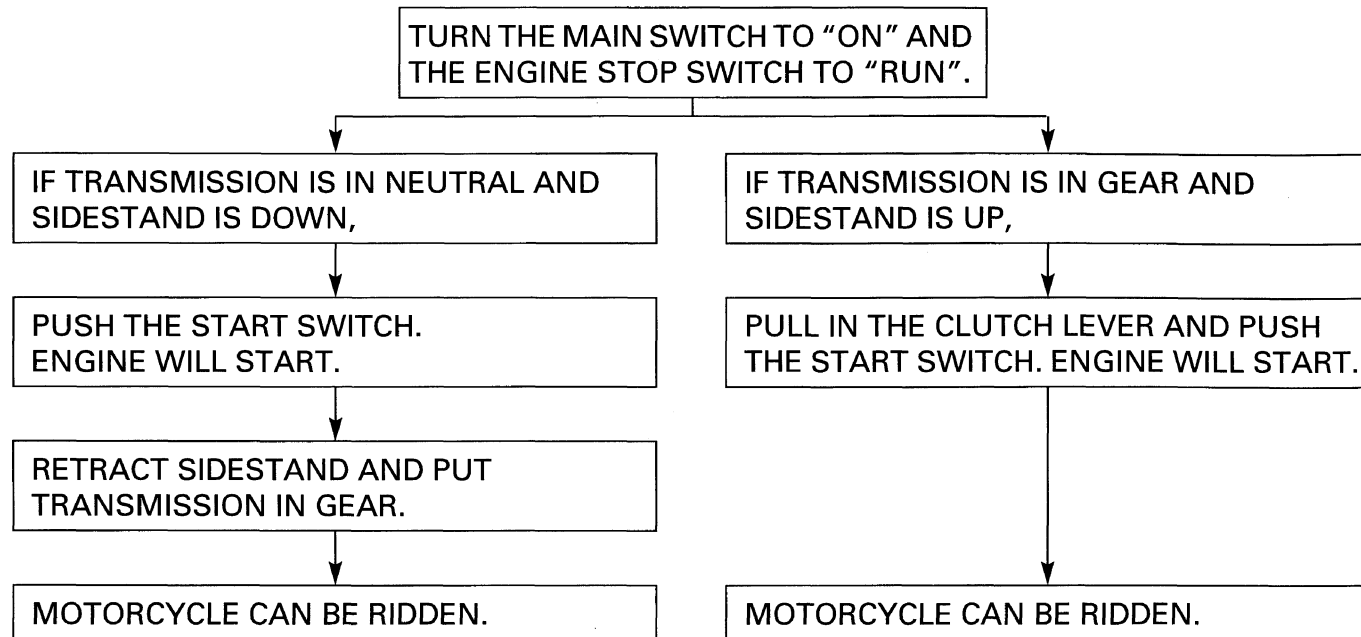
NOTE: _____

This motorcycle is equipped with an ignition circuit cut-off system.

1. The engine can be started only under the following conditions:
 - a. The transmission is in neutral.
 - b. The sidestand is up, the transmission is in gear and the clutch is disengaged.
 2. The motorcycle must not be ridden when the sidestand is down.
-

⚠ WARNING

Before going through the following steps, check the function of the sidestand switch and clutch switch. (Refer to page 5-12.)



1. Turn the main switch to "ON" and the engine stop switch to "RUN".
2. Shift the transmission into neutral.

EUU03001

NOTE: _____

When the transmission is in neutral, the neutral indicator light should be on. If the light does not come on, ask a Yamaha dealer to inspect it.

3. Turn on the starter "CHOKE" and completely close the throttle grip.
4. Start the engine by pushing the start switch.

EUU02501

NOTE: _____

If the engine fails to start, release the start switch, wait a few seconds, then try again. Each attempt should be as short as possible to preserve the battery. Do not crank the engine more than 10 seconds on any one attempt.

5. After starting the engine, move the starter "CHOKE" back to the half way position.

EUU02600

NOTE: _____

For maximum engine life, always warm up the engine before starting off. Never accelerate hard with a cold engine.

6. After warming up the engine, turn off the starter "CHOKE" completely.

NOTE: _____

The engine is warm when it responds normally to the throttle with the starter turned off. To avoid the possibility of excessive exhaust emissions, never leave the starter circuit on longer than necessary. The length of time the starter is needed depends upon the ambient temperature. Warm ambient temperatures (above 10°C/50°F) require about 25 seconds of starter use. Cold ambient temperatures (below 10°C/50°F) require about 35 seconds with the starter fully open, then about 2.5 minutes with the starter in the half-open position. For maximum engine life, always warm up the engine before starting off. Never accelerate hard with a cold engine.

Starting a warm engine

The starter “CHOKE” is not required when the engine is warm.

EUU31401

CAUTION: _____

See the “Engine break-in” section prior to operating the motorcycle for the first time.

EAF20003

Shifting

The transmission lets you control the amount of power you have available at a given speed for starting, accelerating, climbing hills, etc. The use of the shift pedal is shown in the illustration. (Page 5-5)
To shift into neutral, depress the shift pedal repeatedly until it reaches the end of its travel, then raise the pedal slightly.

CAUTION:

1. **Do not coast for long periods with the engine off, and do not tow the motorcycle a long distance. Even with gears in neutral, the transmission is only properly lubricated when the engine is running. Inadequate lubrication may damage the transmission.**
 2. **Always use the clutch when changing gears. The engine, transmission, and driveline are not designed to withstand the shock of forced shifting and can be damaged by shifting without using the clutch.**
-

To start out and accelerate:

1. Pull the clutch lever to disengage the clutch.
2. Shift into first gear. The neutral indicator light should go out.
3. Open the throttle gradually, and at the same time, release the clutch lever slowly.
4. At the recommended shift point in the table below, close the throttle, and at the same time, quickly pull in the clutch lever.
5. Shift into second gear. (Be careful not to shift into neutral.)
6. Open the throttle part way and gradually release the clutch lever.
7. Follow the same procedure when shifting to the next higher gear. Always shift gears at the recommended shift points.

To decelerate:

1. Apply both the front and the rear brakes at the same time to slow the motorcycle.
2. When the motorcycle reaches 20 km/h (12.5 mi/h), shift into first gear. Any time the engine is about to stall or runs very roughly, pull in the clutch and use the brakes to stop.
3. When the motorcycle is almost completely stopped, shift into neutral. The neutral indicator light should come on.

EAF20500

Recommended shift point

	Acceleration shift point km/h (mi/h)	Deceleration shift point km/h (mi/h)
1st → 2nd	16 (9.9)	20 (12.5)
2nd → 3rd	24 (14.9)	20 (12.5)
3rd → 4th	32 (19.9)	20 (12.5)
4th → 5th	40 (24.9)	20 (12.5)

Engine break-in

There is never a more important period in the life of your motorcycle than the period between zero and 1,000 km (600 mi). For this reason we ask that you carefully read the following material. Because the engine is brand new, you must not put an excessive load on it for the first 1,000 km (600 mi). The various parts in the engine wear and polish themselves to the correct operating clearances. During this period, prolonged full throttle operation, or any condition which might result in excessive heating of the engine, must be avoided.

EAF32101

1. 0 ~ 150 km (0 ~ 100 mi):

Avoid operation above 1/3 throttle. Stop the engine and let it cool for 5 to 10 minutes after every hour of operation. Vary the speed of the motorcycle from time to time. Do not operate it at one set throttle position.

2. 150 ~ 500 km (100 ~ 300 mi):
Avoid prolonged operation above 1/2 throttle. Rev the motorcycle freely through the gears, but do not use full throttle at any time.
3. 500 ~ 1,000 km (300 ~ 600 mi):
Avoid cruising speeds in excess of 3/4 throttle.

EUU32001

CAUTION:

After 1,000 km (600 mi) of operation, be sure to replace the engine oil and oil filter.

4. 1,000 km (600 mi) and beyond:
Avoid prolonged full throttle operation. Vary speeds occasionally.

CAUTION:

If any engine trouble should occur during the break-in period, consult a Yamaha dealer immediately.

EAF40000

Parking

When parking the motorcycle, stop the engine and remove the ignition key.

EUU63000

! WARNING

The muffler and exhaust pipe are hot. Park the motorcycle in a place where pedestrians or children are not likely to touch the motorcycle. Do not park the motorcycle on a slope or soft ground; the motorcycle may overturn.

PERIODIC MAINTENANCE AND MINOR REPAIR

EAH00101

Periodic inspection, adjustment, and lubrication will keep your motorcycle in the safest and most efficient condition possible. Safety is an obligation of the motorcycle owner. The most important points of motorcycle inspection, adjustment, and lubrication are explained in the following pages.

“Maintenance, replacement, or repair of the emission control devices and systems may be performed by any repair establishment or individual using any part which is certified (if applicable)”.

EUU63200



WARNING

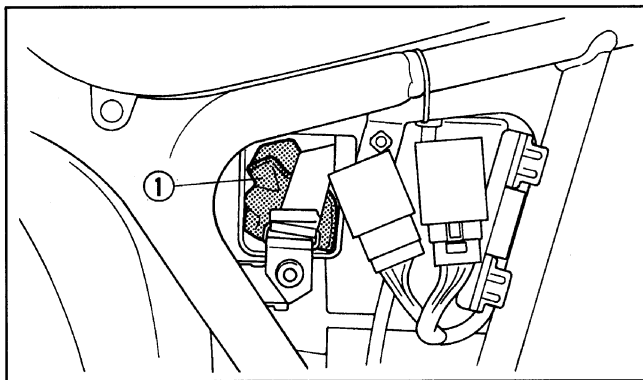
If you are not familiar with motorcycle service, this work should be done by a Yamaha dealer.

PERIODIC MAINTENANCE

PROPER PERIODIC MAINTENANCE OF YOUR MOTORCYCLE IS IMPORTANT IN ORDER TO ENJOY LONG, PLEASURABLE SERVICE. ESPECIALLY IMPORTANT ARE THE MAINTENANCE SERVICES RELATED TO EMISSIONS CONTROL. THESE CONTROLS NOT ONLY FUNCTION TO ENSURE CLEANER AIR BUT ARE ALSO VITAL TO PROPER ENGINE OPERATION AND MAXIMUM PERFORMANCE. IN THE FOLLOWING TABLES OF PERIODIC MAINTENANCE, THE SERVICES RELATED TO EMISSIONS CONTROL ARE GROUPED SEPARATELY. THESE SERVICES REQUIRE SPECIALIZED DATA, KNOWLEDGE, AND EQUIPMENT. YAMAHA DEALERS ARE TRAINED AND EQUIPPED TO PERFORM THESE PARTICULAR SERVICES.

Tool kit

The service information included in this manual is intended to provide you, the owner, with the necessary information for completing some of your own preventive maintenance and minor repairs. The tools provided in the owner's tool kit are to assist you in the performance of periodic maintenance. However, some other tools such as a torque wrench are also necessary to perform the maintenance correctly.



1. Tool kit

NOTE:

If you do not have necessary tools required during a service operation, take your motorcycle to a Yamaha dealer for service.

EUU63301

⚠ WARNING

Modifications to this motorcycle not approved by Yamaha may cause loss of performance, excessive emissions, and render it unsafe for use. Consult a Yamaha dealer before attempting any changes.

PERIODIC MAINTENANCE EMISSION CONTROL SYSTEM

Unit: km (mi)

NO.		ITEM	ROUTINE	INITIAL	ODOMETER READINGS				
				1,000 (600) or 1 month	**1 6,000 (3,800) or 7 months	**2 11,000 (6,900) or 13 months	16,000 (10,000) or 19 months	21,000 (13,100) or 25 months	
1	*	Valve clearance	• Check and adjust valve clearance when engine is cold.	○	○	○	○	○	
2		Spark plug	• Check condition. • Adjust gap and clean. • Replace at 11,000 (or 13 months) and thereafter every 10,000 (or 12 months).		○	Replace	○	Replace	
3	*	Crankcase ventilation system	• Check ventilation hose for cracks or damage. • Replace if necessary.		○		○		
4	*	Fuel line	• Check fuel hose and vacuum pipe for cracks or damage. • Replace if necessary.		○	○	○	○	
5	*	Exhaust system	• Check for leakage. • Retighten if necessary. • Replace gasket(s) if necessary.		○	○	○	○	
6	*	Idle speed	• Check and adjust engine idle speed. • Adjust cable free play.		○	○	○	○	
7	*	Evaporative emission control system**	• Check control system for damage. • Replace if necessary.			○		○	

Items marked with an asterisk (*) require special tools, data and technical skills for servicing. Take the motorcycle to a Yamaha Dealer or refer to the Service Manual when servicing these items.

** California type only.

NOTE: _____

For farther odometer reading, repeat the above maintenance at the period established; **1: Every 5,000 km (3,100 mi) and **2: Every 10,000 km (6,200 mi) intervals.

Spark plug inspection

The spark plug is an important engine component and is easy to inspect. The condition of the spark plug can indicate the condition of the engine.

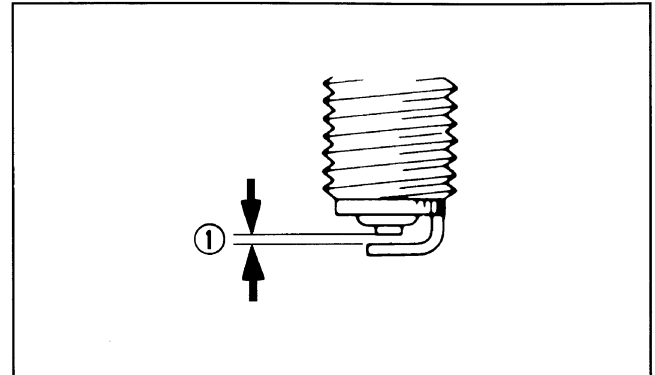
Normally, all spark plugs from the same engine should have the same color on the white insulator around the center electrode. The ideal color at this point is a medium-to-light tan color for a motorcycle that is being ridden normally. If one spark plug shows a distinctly different color, there could be something wrong with the engine.

Do not attempt to diagnose such problems yourself. Instead, take the motorcycle to a Yamaha dealer. You should periodically remove and inspect the spark plugs because heat and deposits will cause any spark plug to slowly break down and erode. If electrode erosion becomes exces-

sive, or if carbon and other deposits are excessive, you should replace the spark plug with the specified plug.

Specified spark plug:
C6HSA (NGK) or
U20FS-U (DENSO)

Before installing any spark plug, measure the electrode gap with a wire thickness gauge. Adjust the gap to specification.



1. Spark plug gap

Spark plug gap:

0.6 ~ 0.7 mm (0.024 ~ 0.028 in)

When installing the spark plug, always clean the gasket surface and use a new gasket. Wipe off any grime from the threads and tighten the spark plug to the specified torque.

Tightening torque:

Spark plug:

12.5 Nm (1.25 m·kg, 9.0 ft·lb)

EUU03802

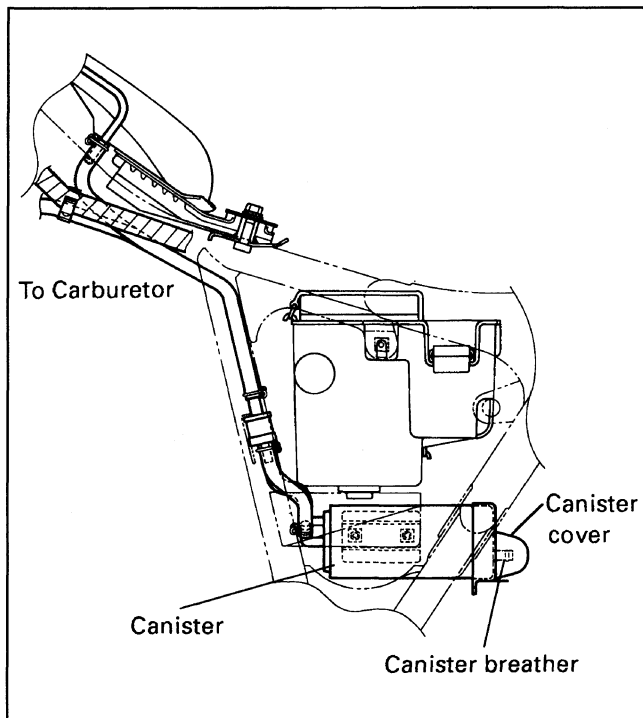
NOTE:

If a torque wrench is not available when you are installing a spark plug, a good estimate of the correct torque is 1/4 to 1/2 turn past finger tight. Have the spark plug tightened to the specified torque as soon as possible.

Canister (for California only)

This model is equipped with a canister to prevent the discharging of fuel vapor into the atmosphere. Before using this motorcycle be sure to check the following:

1. Check each hose connection.
2. Check each hose and canister for cracks or damage. Replace if damaged.
3. Make sure the canister breather is not blocked. Clean it if necessary.



GENERAL MAINTENANCE/LUBRICATION

Unit: km (mi)

NO.			ITEM	ROUTINE	TYPE	INITIAL	ODOMETER READINGS			
						1,000 (600) or 1 month	**1 6,000 (3,800) or 7 months	**2 11,000 (6,900) or 13 months	**3 16,000 (10,000) or 19 months	21,000 (13,100) or 25 months
1			Engine oil	• Warm-up engine before draining.	*1)Yamalube 4 (20W40) or SAE 20W40 type "SE" motor oil *2)Yamalube 4 (10W30) or SAE 10W30 type "SE" motor oil	○	○	○	○	○
2	*		Oil filter	• Replace	—	○		○		○
3	*		Air filter	• Wet type filter must be washed and damped with oil.	Yamalube 4 (10W30) or SAE 10W30 type "SE" motor oil		○	○	○	○
4	*		Brake system	• Adjust free play. • Replace pads if necessary. (front) • Replace shoes if necessary. (rear)	—	○	○	○	○	○
5	*		Clutch	• Adjust free play.	—	○	○	○	○	○

NO.		ITEM	ROUTINE	TYPE	INITIAL	ODOMETER READINGS			
					1,000 (600) or 1 month	**1 6,000 (3,800) or 7 months	**2 11,000 (6,900) or 13 months	**3 16,000 (10,000) or 19 months	21,000 (13,100) or 25 months
6		Drive chain	• Check chain condition. • Adjust and lubricate chain thoroughly.	SAE 30W-50W motor oil	Every 500 (300)				
7		Control and meter cable	• Apply chain lube thoroughly.	Yamaha chain and cable lube or SAE 10W30 motor oil	○	○	○	○	○
8	*	Swingarm pivot shaft	• Check swingarm assembly for looseness. • Moderately repack.	Lithium soap base grease	Check	○	○	○	○
9		Brake/Clutch lever pivot shaft	• Apply chain lube lightly.	Yamaha chain and cable lube or SAE 10W30 motor oil		○	○	○	○
10		Brake pedal and shift pedal shaft	• Lubricate. • Apply chain lube lightly.	Yamaha chain and cable lube or SAE 10W30 motor oil		○	○	○	○
11	*	Sidestand pivot	• Check operation and lubricate. • Apply chain lube lightly.	Yamaha chain and cable lube or SAE 10W30 motor oil		○	○	○	○
12	*	Front fork	• Check operation and leakage.	—		○	○	○	○

NO.		ITEM	ROUTINE	TYPE	INITIAL	ODOMETER READINGS			
					1,000 (600) or 1 month	**1 6,000 (3,800) or 7 months	**2 11,000 (6,900) or 13 months	**3 16,000 (10,000) or 19 months	21,000 (13,100) or 25 months
13	*	Steering bearings	• Check bearings assembly for looseness. • Moderately repack every 15,000 (9,000).	Lithium soap base grease		○	○	Repack	○
14	*	Wheel bearings	• Check bearings for smooth rotation.	—		○	○	○	○
15		Battery	• Check specific gravity and breather pipe for proper operation.	—		○	○	○	○
16	*	Sidestand switch	• Check and clean or replace if necessary.	—	○	○	○	○	○

*1) If ambient temperature does not go below 5°C/40°F.

*2) If ambient temperature does not go above 15°C/60°F.

Items marked with an asterisk (*) require special tools, data and technical skills for servicing. Take the motorcycle to a Yamaha Dealer or refer to the Service Manual when servicing these items.

NOTE:

For farther odometer reading, repeat the above maintenance at the period established;
**1: Every 5,000 km (3,100 mi), **2: Every 10,000 km (6,200 mi) and **3: Every 15,000 km (9,000 mi) intervals.

Engine oil

1. Oil level inspection

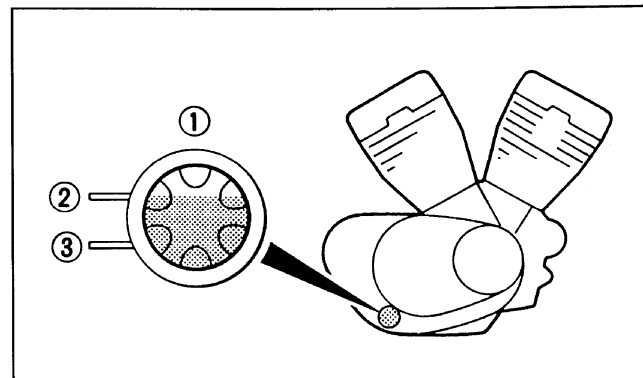
- a. Place the motorcycle on a level place and hold it in an upright position. Warm up the engine for several minutes.

EUU03901

NOTE:

Be sure the motorcycle is positioned straight up when checking the oil level. A slight tilt toward the side can result in false readings.

- b. With the engine stopped, check the oil level through the level window located at the lower part of the right side crankcase cover.



1. Level window
2. Maximum mark
3. Minimum mark

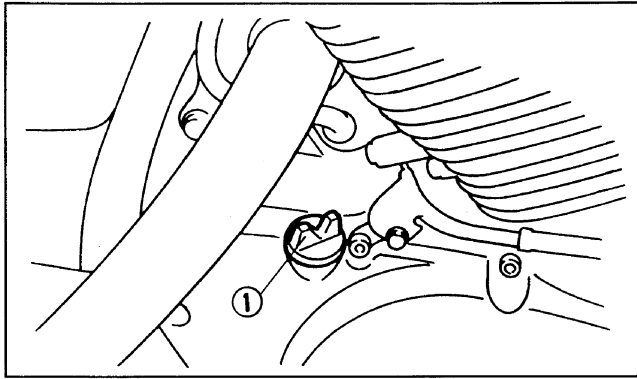
EUU04000

NOTE:

Wait a few minutes until the oil level settles before checking.

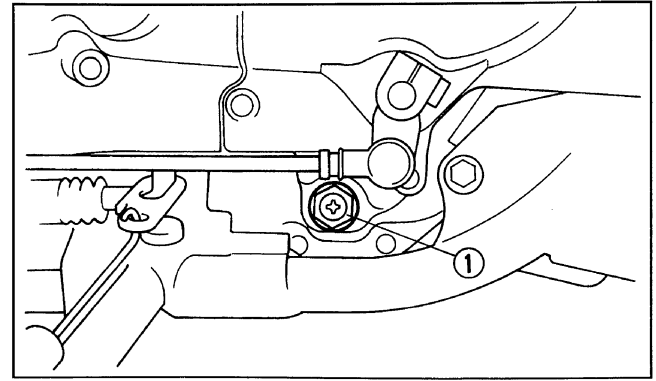
- c. The oil level should be between maximum and minimum marks. If the level is low, fill the engine with oil.

2. Engine oil and oil filter element replacement
 - a. Warm up the engine for a few minutes.
 - b. Stop the engine. Place an oil pan under the engine and remove the oil filler cap.



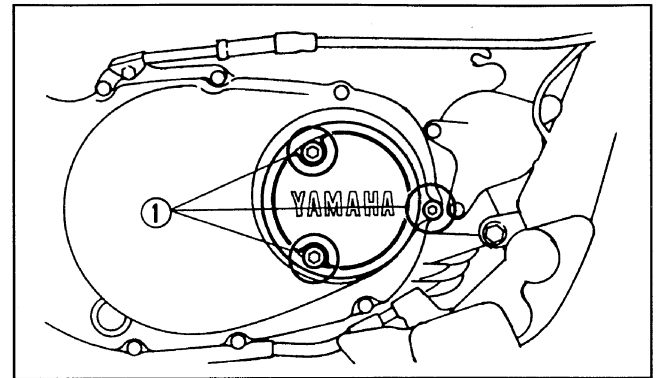
1. Oil filler cap

- c. Remove the drain plug and drain the oil.



1. Drain plug

- d. Remove the oil filter cover bolts and oil filter.



8-12 1. Oil filter bolt (× 3)

- e. Reinstall the drain plug and tighten it to the specified torque.

Tightening torque:

Drain plug:

34 Nm (3.4 m·kg, 25 ft·lb)

- f. Install the new oil filter, new O-ring and the filter cover. Tighten the oil filter cover bolts to the specified torque.

Tightening torque:

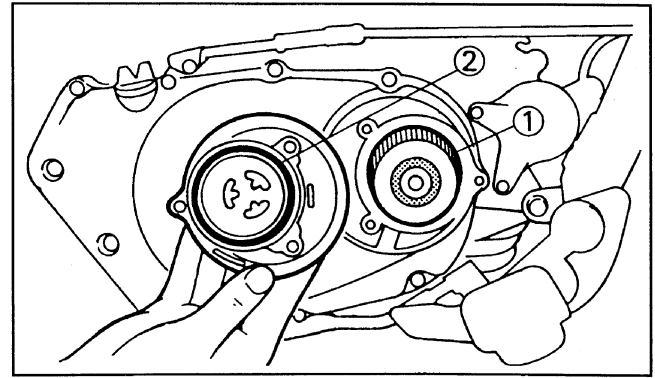
Oil filter cover bolt:

7 Nm (0.7 m·kg, 5.1 ft·lb)

EUU04101

NOTE:

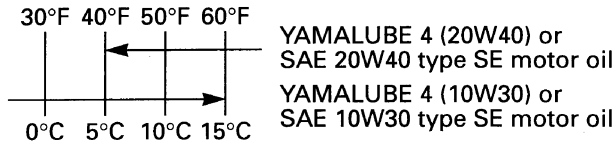
Make sure the O-ring is seated properly.



1. Oil filter

2. O-ring

- g. Fill the engine with oil. Install the oil filler cap and tighten.

Recommended oil:**Recommended engine oil classification:**

API Service "SE", "SF" type or equivalent
(e.g. "SF-SE", "SF-SE-CC", "SF-SE-SD" etc.)

Oil quantity:

Total amount:

1.8 L (1.6 Imp qt, 1.9 US qt)

Periodic oil change:

1.4 L (1.2 Imp qt, 1.5 US qt)

With oil filter replacement:

1.6 L (1.4 Imp qt, 1.7 US qt)

CAUTION:

Do not put in any chemical additives. Engine oil also lubricates the clutch and additives could cause clutch slippage.

EUU32400

CAUTION:

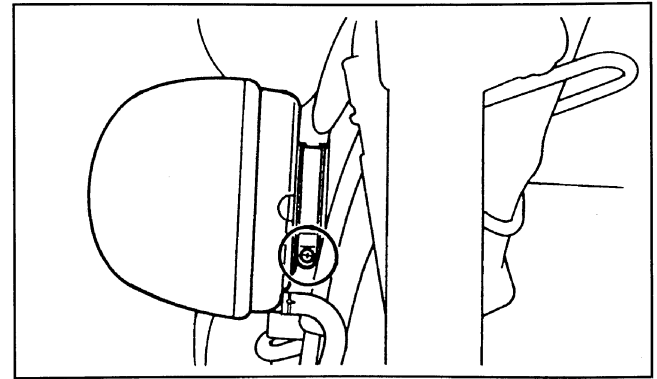
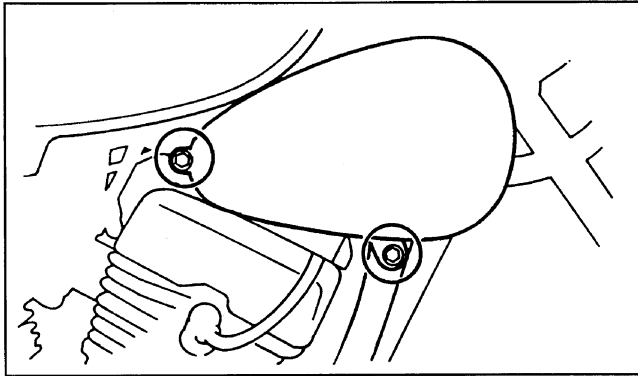
Be sure no foreign material enters the crankcase.

- h. Start the engine and warm up for a few minutes. While warming up, check for oil leakage. If oil leakage is found, stop the engine immediately and check for the cause.

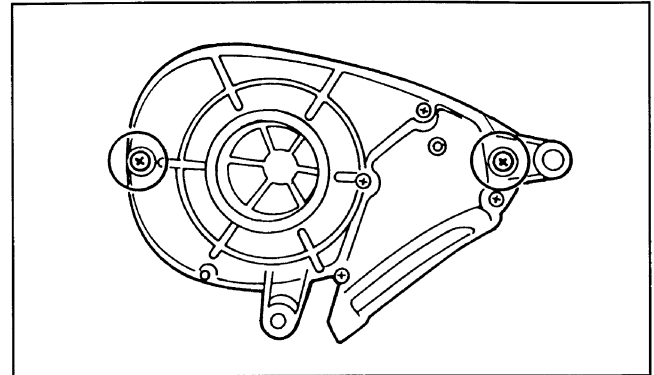
Air filter

The air filter should be cleaned at the specified intervals. It should be cleaned more frequently if you are riding in unusually wet or dusty areas.

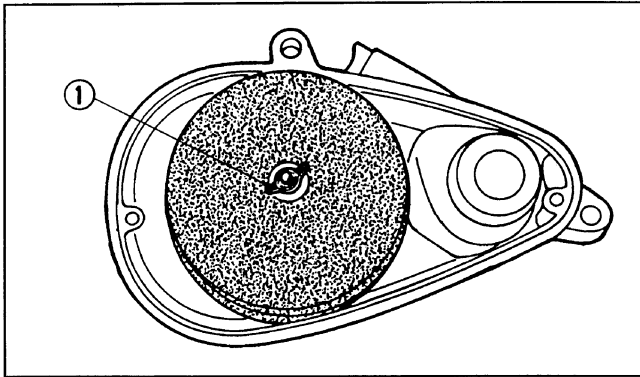
1. Remove the air filter case assembly.



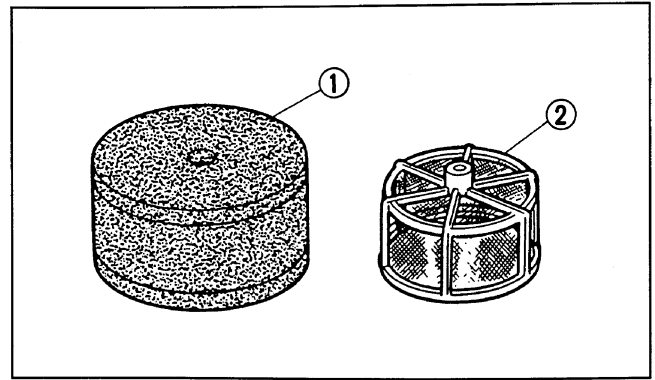
2. Remove the air filter case cover.



3. Remove the air filter from its case and clean it with solvent. After cleaning, remove the remaining solvent by squeezing the air filter.



1. Wing nut



1. Air filter

2. Element guide

4. Apply recommended oil to the entire surface of the air filter and squeeze out the excess oil. It should be wet but not dripping.

Recommended oil:

Yamalube 4 (10W30) or
SAE 10W30 type SE motor oil

5. Install the air filter in its case and reinstall the air filter case assembly.

CAUTION:

Make sure the air filter is properly seated in the filter case.

EUU42401

CAUTION:

The engine should never be run without the air filter installed. Excessive piston and/or cylinder wear may result.

EAH90201

Carburetor adjustment

The carburetor is a vital part of the engine and its emission control system. Adjusting should be left to a Yamaha dealer with the professional knowledge, specialized data and equipment to do so properly.

Valve clearance adjustment

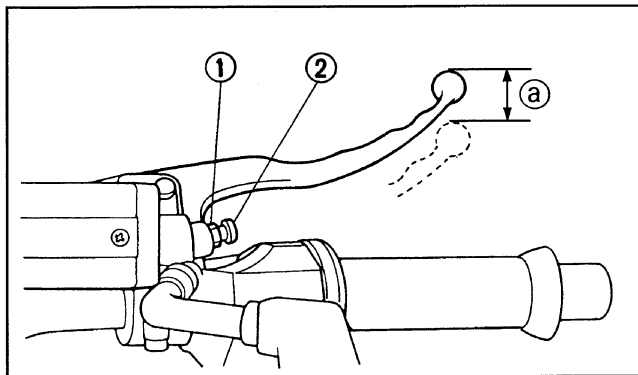
The correct valve clearance changes with use, resulting in improper fuel/air supply or engine noise. To prevent this, the valve clearance must be adjusted regularly. This adjustment however, should be left to a professional Yamaha service technician.

EAH80103

Front brake lever free play adjustment

The free play at the front brake lever should be 2 ~ 5 mm (0.08 ~ 0.2 in).

1. Loosen the locknut.
2. Turn the adjusting bolt so that the brake lever movement is 2 ~ 5 mm (0.08 ~ 0.2 in) before the bolt contacts the master cylinder piston.
3. After adjusting, tighten the locknut.



1. Locknut 2. Adjusting bolt a. 2~5 mm (0.08~0.2 in)

WARNING

- Check the brake lever free play. Be sure the brake is working properly.
- A soft or spongy feeling in the brake lever can indicate the presence of air in the brake system. This air must be removed by bleeding the brake system before the motorcycle is operated. Air in the system will cause greatly diminished braking capability and can result in loss of control and an accident. Have a Yamaha dealer inspect and bleed the system if necessary.

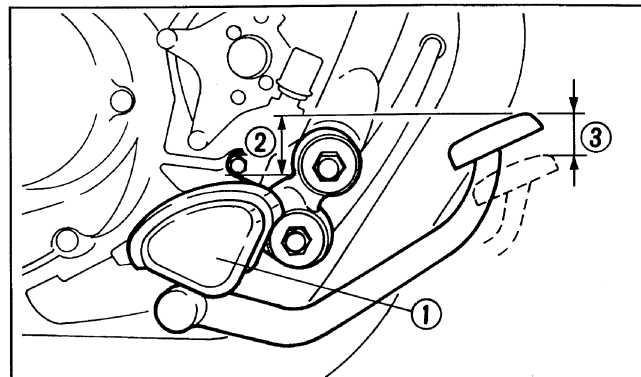
Rear brake pedal height and free play adjustment

EUU64301

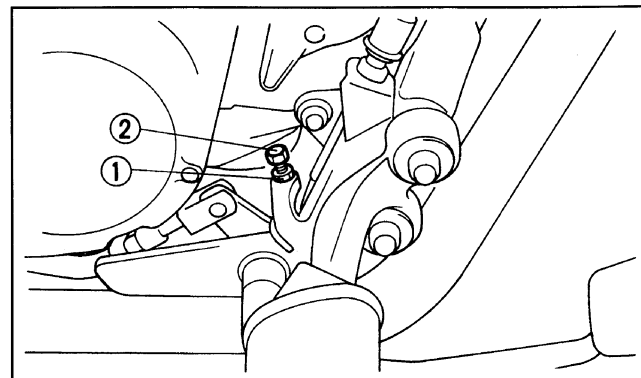
WARNING

It is advisable to have a Yamaha dealer make this adjustment.

1. Pedal height
 - a. Loosen the locknut.
 - b. Turn the adjusting bolt so that the top of the brake pedal is approximately 60 mm (2.4 in) above the top of the footrest.
 - c. Tighten the locknut.



1. Footrest
2. Pedal height: 60 mm (2.4 in)
3. Free play: 20~30 mm (0.8~1.2 in)



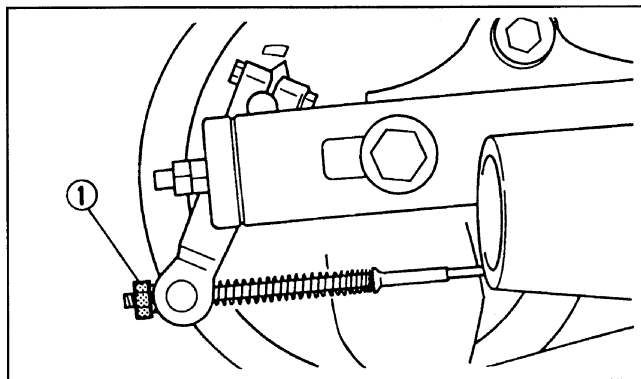
1. Locknut
2. Adjusting bolt (for pedal height)

⚠ WARNING

After adjusting the pedal height adjust brake pedal free play.

2. Free play

Turn the adjusting nut so that the free play at the end of the brake pedal is approximately 20 ~ 30 mm (0.8 ~ 1.2 in).



1. Adjusting nut

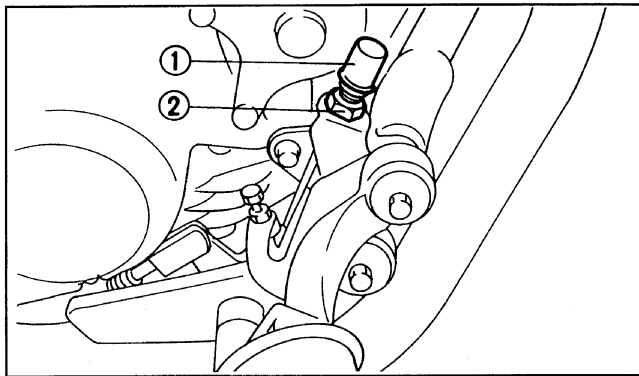
⚠ WARNING

- 1. The rear brake pedal adjustment must be checked whenever the chain is adjusted or the rear wheel is removed and then reinstalled.**
- 2. Check the operation of the brake light after adjusting the rear brake.**

EAH83301

Brake light switch adjustment

The brake light switch is operated by movement of the brake pedal. To adjust, hold the main body of the switch so it does not rotate and turn the adjusting nut. Proper adjustment is achieved when the brake light comes on just before the brake begins to take effect.



1. Main body

2. Adjusting nut

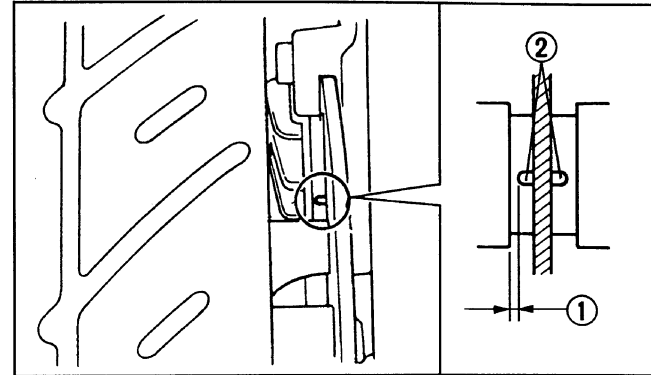
EAH81401

Checking the front brake pads and rear brake shoes

A wear indicator is provided on each brake. This indicator allows checking of brake pad/shoe wear without disassembling the brake.

FRONT

Apply the brake and inspect the wear indicator. If the brake pads are worn to the wear limit, have a Yamaha dealer replace the pads.



1. Wear limit 0.8 mm (0.031 in)

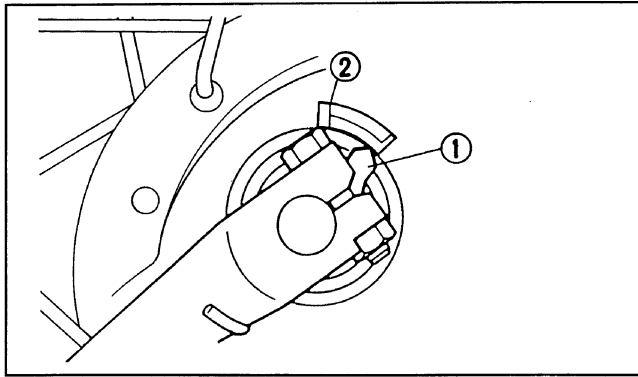
2. Wear indicator

EAH82601

REAR

Apply the brake and inspect the wear indicator.

If the indicator reaches the wear limit line, ask a Yamaha dealer to replace the shoes.



1. Wear indicator

2. Wear limit

EAH88203

Inspecting the brake fluid level

Insufficient brake fluid may let air enter the brake system, possibly causing the brakes to become ineffective.

Before riding, check that the brake fluid is above the minimum level and fill when necessary.

Observe these precautions:

1. When checking the fluid level, make sure the top of the master cylinder is level by turning the handlebars.

2. Use only the designated quality brake fluid. Otherwise, the rubber seals may deteriorate, causing leakage and poor brake performance.

Recommended brake fluid: DOT 4

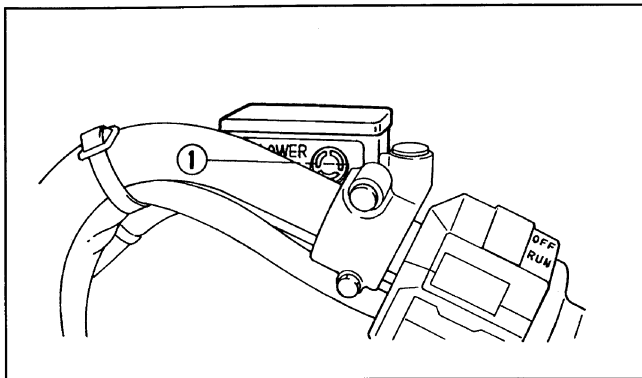
EUU13100

NOTE:

If DOT 4 is not available, DOT 3 can be used.

3. Refill with the same type of brake fluid. Mixing fluids may result in a harmful chemical reaction and lead to poor brake performance.
4. Be careful that water does not enter the master cylinder when refilling. Water will significantly lower the boiling point of the fluid and may result in vapor lock.
5. Brake fluid may deteriorate painted surfaces or plastic parts. Always clean up spilled fluid immediately.

6. Have a Yamaha dealer check the cause if the brake fluid level goes down.



1. Minimum level

EAH83501

Brake fluid replacement

1. Complete fluid replacement should be done only by trained Yamaha service personnel.

2. Have a Yamaha dealer replace the following components during periodic maintenance or when they are damaged or leaking.
 - a. Replace all rubber seals every two years.
 - b. Replace all hoses every four years.

EAI00504

Clutch lever free play adjustment

The clutch lever free play should be adjusted to 10 ~ 15 mm (0.39 ~ 0.59 in). If the free play is incorrect, adjust as follows.

Free play:

10 ~ 15 mm (0.39 ~ 0.59 in)

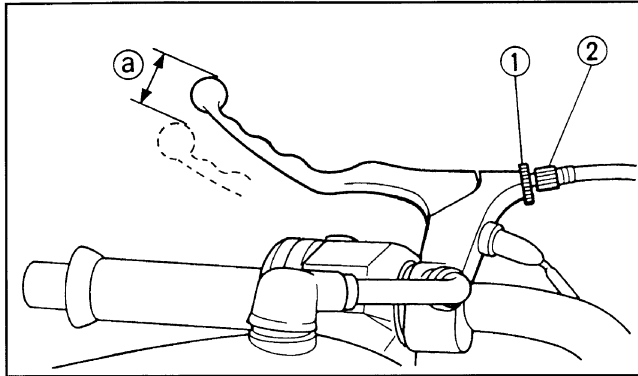
1. Loosen the locknut at the handlebar.
2. Turn the adjusting bolt in or out until specified lever free play is obtained.
3. Tighten the locknut.

4. If the free play is still incorrect, make an adjustment at the crankcase side.

EUU17800

NOTE:

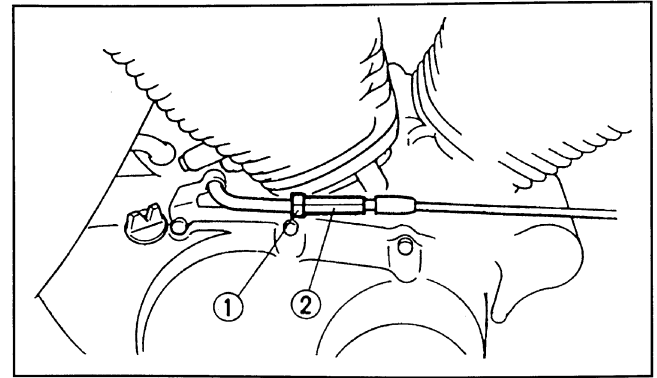
If proper adjustment cannot be obtained or the clutch does not work correctly, ask a Yamaha dealer to inspect the internal clutch mechanism.



1. Locknut

2. Adjusting bolt

a. 10~15 mm (0.39~0.59 in)



1. Locknut

2. Adjusting nut

EAI40801

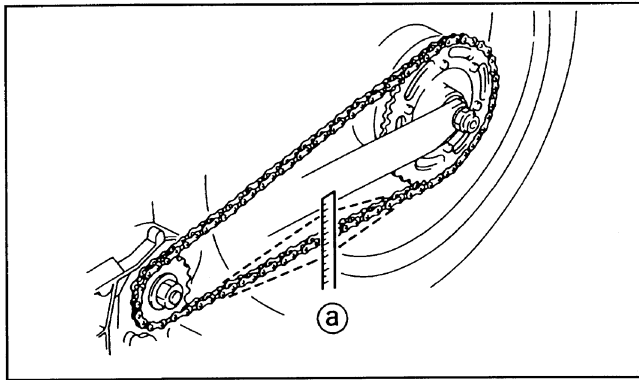
Drive chain slack check

EUU04801

NOTE:

Spin the wheel several times and find the tightest position of the chain. Check and/or adjust the chain slack while it's in this tightest position.

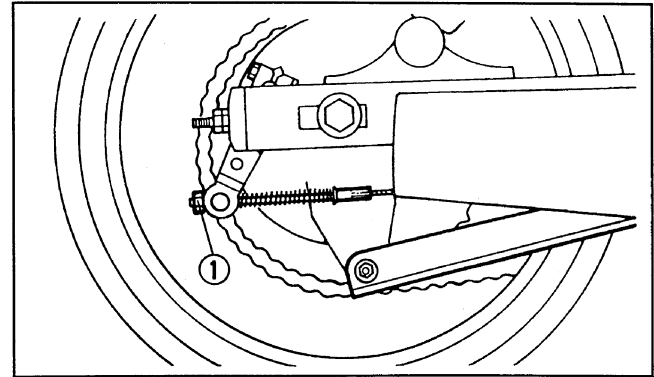
To check the chain slack the motorcycle must be held straight up with both wheels on the ground and without rider. Check the slack at the position shown in the illustration. Normal slack is approximately 30 ~ 40 mm (1.2 ~ 1.6 in). If the slack exceeds 40 mm (1.6 in), adjust.



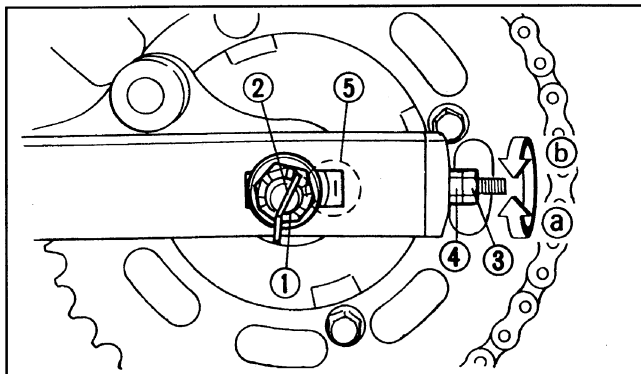
a. 30 ~ 40 mm (1.2 ~ 1.6 in)

Drive chain slack adjustment

1. Loosen the rear brake pedal free play adjusting nut.



1. Adjusting nut
2. Remove the cotter pin from the axle nut.



1. Axle nut 2. Cotter pin 3. Locknut
4. Chain adjusting nut 5. Alignment marks

3. Loosen the axle nut.
4. Loosen the chain adjuster locknuts on each side of the swingarm. To tighten the chain, turn the chain adjusting nuts on each side of the swingarm in direction (b). To loosen the chain, turn each chain adjusting nut in direction (a) and push the wheel forward. Turn each chain adjusting nut exactly the same amount to maintain correct axle alignment. There are marks on each

side of the swingarm and a match mark on each chain adjusting nut. Use these marks to align the rear wheel.

EUU33301

CAUTION:

Too little chain slack will overload the engine and other vital parts. Keep the slack within the specified limits.

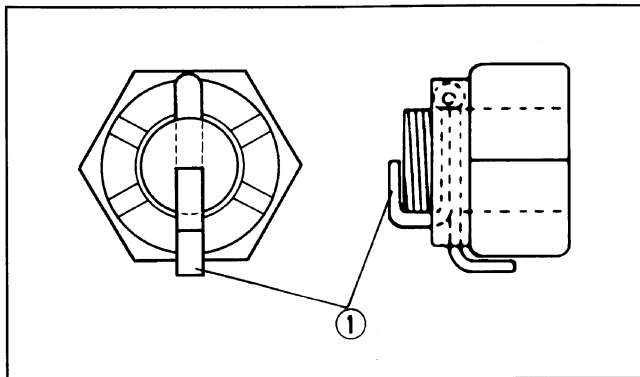
5. After adjusting, be sure to tighten each chain adjuster locknut. Then tighten the axle nut to the specified torque.

Tightening torque:

Axle nut:

105 Nm (10.5 m·kg, 76 ft·lb)

6. Insert a new cotter pin into the axle nut and bend the end of the cotter pin as shown. If the notch in the axle nut and the cotter pin hole do not match, tighten the nut slightly to align them.



1. Cotter pin

EUU64700

⚠ WARNING

Always use a new cotter pin on the axle nut.

7. Adjust the free play in the brake pedal.

EUU64500

⚠ WARNING

Check the operation of the brake light after adjusting the rear brake.

Drive chain lubrication

The chain consists of many parts which work with each other. If the chain is not maintained properly, it will wear out quickly. Therefore, the chain must be serviced regularly. This service is especially necessary when riding in dusty areas.

1. Use Yamaha Chain and Cable Lube or any brands of spray-type chain lubricant. First, remove all dirt and mud from the chain with a brush or cloth, then spray lubricant between both rows of side plates and on all center rollers. The chain should be lubricated every 500 km (300 mi).
2. To clean the chain, remove it from the motorcycle, dip it in solvent, and clean out as much dirt as possible. Take the chain out of the solvent and dry it. Immediately lubricate the chain to prevent it from rusting.

Cable inspection and lubrication

EUU64601

WARNING

Damage to the outer housing of cables may allow internal rusting and cause interference with cable movement. Replace damaged cables as soon as possible to prevent unsafe conditions.

Lubricate the inner cable and the cable end. If it does not operate smoothly, ask a Yamaha dealer to replace them.

Recommended lubricant:
Yamaha Chain and Cable Lube or
SAE 10W30 motor oil

Throttle cable and grip lubrication

The throttle twist grip assembly should be greased at the time that the cable is lubricated, since the grip must be removed to get at the end of the throttle cable. After removing the screws, hold the end of the cable up in the air and put in several drops of lubricant. With the throttle grip disassembled, coat the metal surface of the grip assembly with a suitable all-purpose grease.

EAI30202

Brake and shift pedal lubrication

Lubricate the pivoting parts.

Recommended lubricant:
Yamaha Chain and Cable Lube or
SAE 10W30 motor oil

Brake and clutch lever lubrication

Lubricate the pivoting parts.

Recommended lubricant:

Yamaha Chain and Cable Lube or
SAE 10W30 motor oil

Sidestand lubrication

Lubricate the sidestand pivoting and mating parts. Check to see that the sidestand moves up and down smoothly.

Recommended lubricant:

Yamaha Chain and Cable Lube or
SAE 10W30 motor oil

! WARNING

**If the sidestand does not move smoothly,
consult a Yamaha dealer.**

Front fork inspection**! WARNING**

**Securely support the motorcycle so there
is no danger of it falling over.**

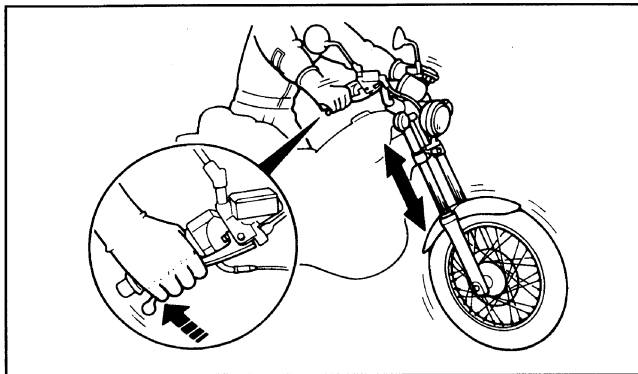
1. Visual check

Check for scratches or damage on the inner tube and excessive oil leakage from the front fork.

2. Operation check

Place the motorcycle on a level place.

- a. Hold the motorcycle in an upright position and apply the front brake.
- b. Push down hard on the handlebars several times and check if the fork rebounds smoothly.



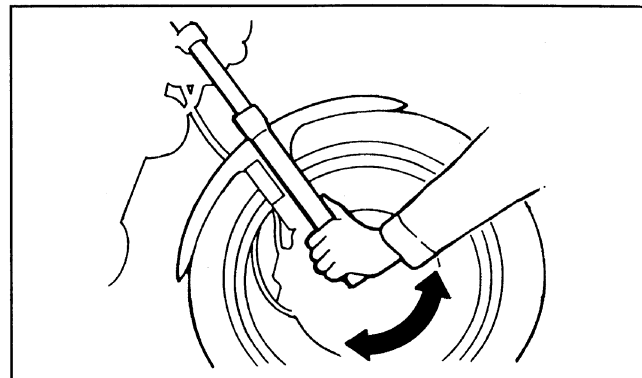
EUU42500

CAUTION:

If any damage or unsmooth movement is found with the front fork, consult a Yamaha dealer.

Steering inspection

Periodically inspect the condition of the steering. Worn out or loose steering bearings may be dangerous. Place a stand under the engine to raise the front wheel off the ground. Hold the lower end of the front forks and try to move them forward and backward. If any free play can be felt, ask a Yamaha dealer to inspect and adjust the steering. Inspection is easier if the front wheel is removed.



⚠ WARNING

Securely support the motorcycle so there is no danger of it falling over.

EAI60103

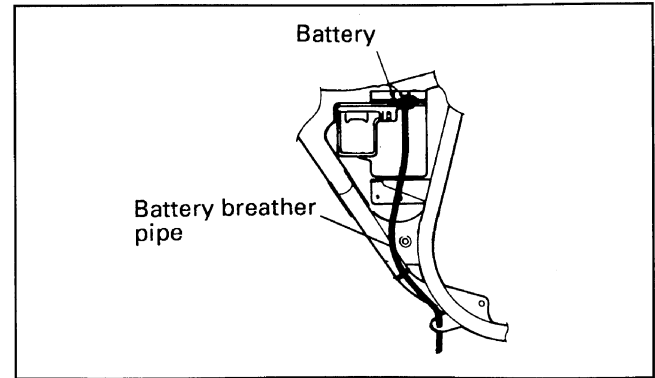
Wheel bearings

If there is play in the front or rear wheel hub or if the wheel does not turn smoothly, have a Yamaha dealer inspect the wheel bearings. The wheel bearings should be inspected according to the General Maintenance Schedule.

EAI70003

Battery

Check the level of the battery electrolyte and make sure that the terminals are tight. Fill with distilled water if the electrolyte level is low.



EUU33601

CAUTION:

When inspecting the battery, be sure the breather pipe is routed correctly. If the breather pipe is positioned in such a way as to cause battery electrolyte or gas to exit onto the frame, structural and cosmetic damage to the motorcycle can occur.

⚠ WARNING

Battery electrolyte is poisonous and dangerous, causing severe burns, etc. It contains sulfuric acid. Avoid contact with skin, eyes or clothing.

Antidote:

EXTERNAL: Flush with water.

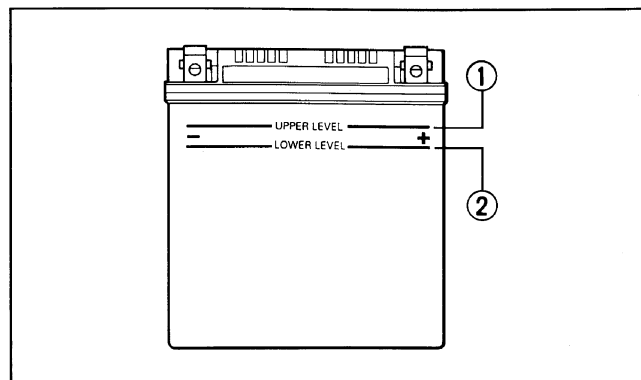
INTERNAL: Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg, or vegetable oil. Call a physician immediately.

EYES: Flush with water for 15 minutes and get prompt medical attention. Batteries produce explosive gases. Keep sparks, flame, cigarettes etc., away. Ventilate when charging or using in an enclosed space. Always shield your eyes when working near batteries.

KEEP OUT OF REACH OF CHILDREN.

Replenishing the battery fluid

A poorly maintained battery will corrode and discharge quickly. The battery fluid should be checked at least once a month. The level should be between the minimum level and maximum level marks. Use only distilled water if refilling is necessary.



1. Maximum level
2. Minimum level

CAUTION:

Normal tap water contains minerals which are harmful to a battery; therefore, refill only with distilled water.

EUU65901

⚠ WARNING

Take care not to spill battery fluid on the chain. Battery fluid may weaken the chain causing shorter chain life and possibly result in an accident.

Storage

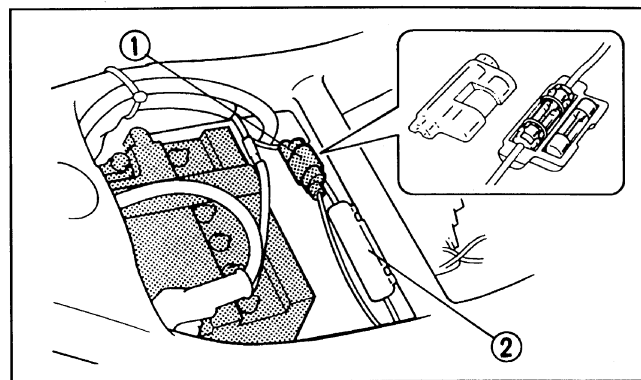
1. When the motorcycle will not be used for a month or longer, remove the battery and store it in a cool, dark place. Completely recharge the battery before reinstallation.
2. If the battery will be stored for longer than two months, check the specific gravity of the fluid at least once a month and recharge the battery when it is too low.

3. Always make sure the connections are correct when putting the battery back in the motorcycle. Make sure the breather pipe is properly connected and is not damaged or obstructed.

EAI93402

Fuse replacement

1. The fuse cases are located under the rider seat.



1. Main fuse

2. Signal fuse

2. If a fuse is blown, turn off the main switch and the switch of the circuit in question. Install a new fuse of specified amperage. Turn on the switches and see if the electrical device operates. If the fuse immediately blows again, consult a Yamaha dealer.

EUU34400

CAUTION:

Do not use fuses of higher amperage rating than those recommended. Substitution of a fuse of improper rating can cause extensive electrical system damage and possibly a fire.

Specified fuse:

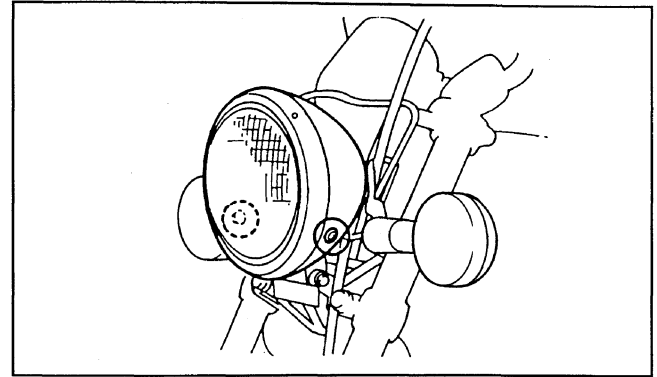
Main: 20A

Signal: 10A

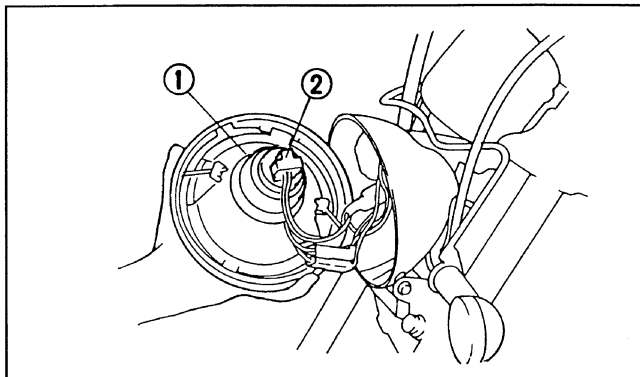
Replacing the headlight bulb

If the headlight bulb burns out, replace the bulb as follows:

1. Remove the headlight unit assembly.



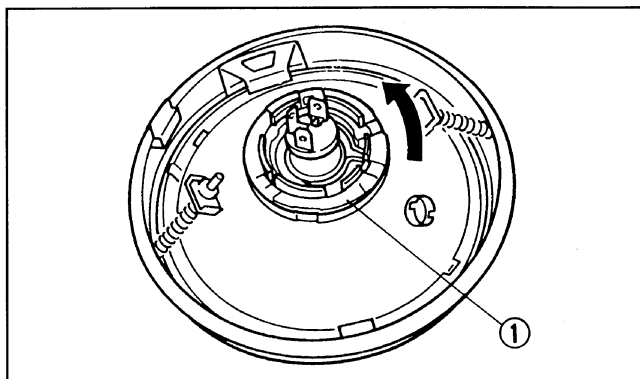
2. Disconnect the headlight leads, and remove the cover.



1. Cover

2. Connector

3. Turn the bulb holder counterclockwise and remove the defective bulb.



1. Bulb holder

⚠ WARNING

Keep flammable products and your hands away from the bulb while it is on, as it is hot. Do not touch the bulb until it cools down.

4. Put a new bulb into position and secure it in place with the bulb holder.
5. Install the cover.
6. Reconnect the headlight leads.
7. Install the headlight unit assembly. If the headlight beam adjustment is necessary, ask a Yamaha dealer to make adjustment.

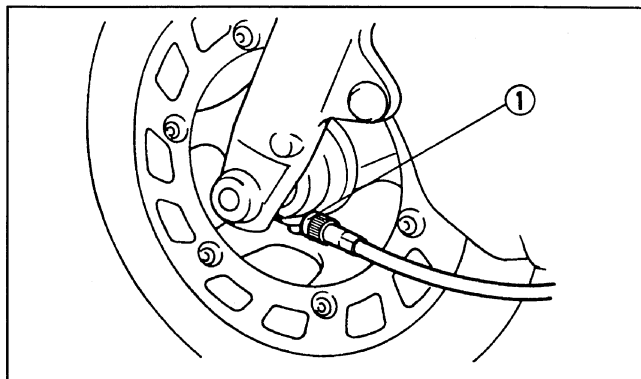
Front wheel removal

EUU66202

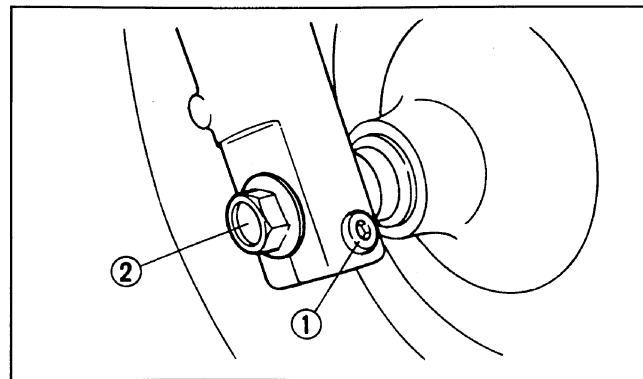
WARNING

- It is advisable to have a Yamaha dealer service the wheel.
- Securely support the motorcycle so there is no danger of it falling over.

1. Remove the speedometer cable from the front wheel side.



1. Speedometer cable
2. Loosen the pinch bolt and wheel axle.



1. Pinch bolt
2. Wheel axle
3. Elevate the front wheel by placing a suitable stand under the engine.
4. Remove the wheel axle and the front wheel. Make sure the motorcycle is properly supported.

EUU05401

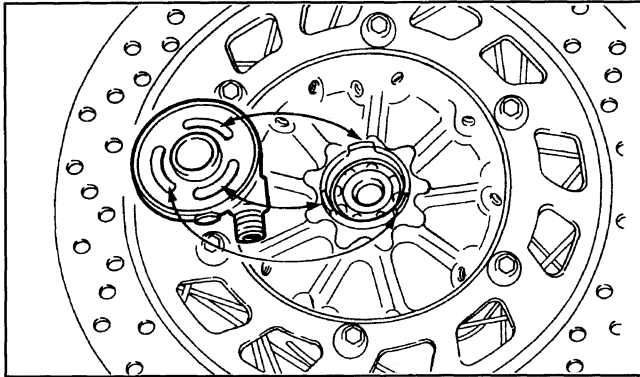
NOTE:

Do not depress the brake lever when the disc and caliper are separated.

Front wheel installation

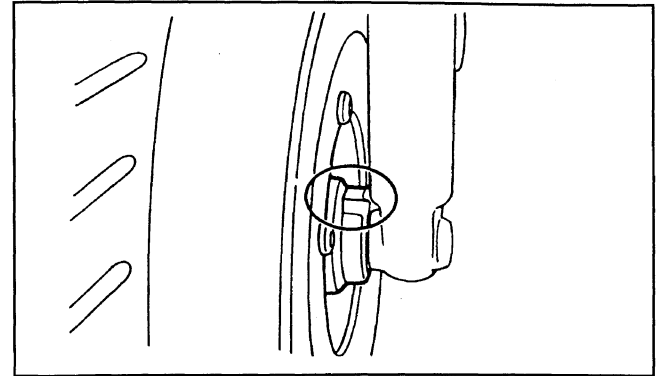
When installing the front wheel, reverse the removal procedure. Pay attention to the following points:

1. Make sure the wheel hub and the speedometer gear unit are installed with the projections meshed into the slots.



2. Make sure there is enough gap between the brake pads before inserting the brake disc.

3. Make sure the slot in the speedometer gear unit fits over the stopper on the front fork outer tube.



4. Tighten the wheel axle to the specified torque.

Tightening torque:

Wheel axle:

59 Nm (5.9 m·kg, 43 ft·lb)

5. Before tightening the pinch bolt, push down hard on the handlebars several times to check for proper fork operation.
6. Tighten the pinch bolt to the specified torque.

Tightening torque:

Pinch bolt:

20 Nm (2.0 m·kg, 14 ft·lb)

EAJ31204

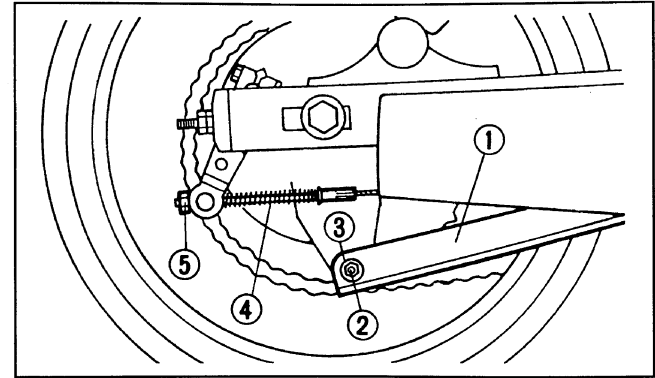
Rear wheel removal

EUU66202

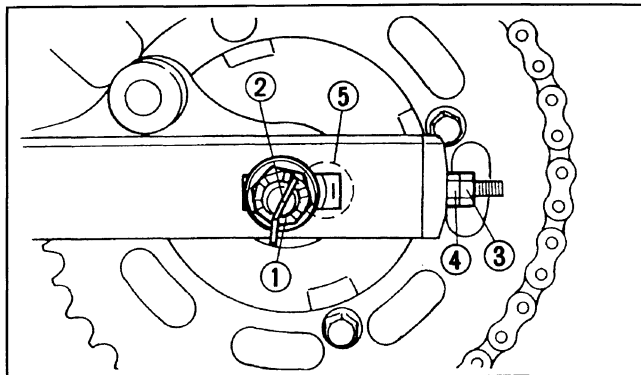
WARNING

- It is advisable to have a Yamaha dealer service the wheel.
- Securely support the motorcycle so there is no danger of it falling over.

1. Elevate the rear wheel by placing a suitable stand under the engine.
2. Remove the cotter pin, nut and tension bar bolt from the brake shoe plate.



1. Tension bar
 2. Cotter pin
 3. Nut (tension bar bot)
 4. Brake rod
 5. Brake adjusting nut
3. Remove the rear brake pedal free play adjusting nut and brake rod from the brake cam lever.



1. Axle nut
 2. Cotter pin
 3. Locknut
 4. Chain adjusting nut
 5. Alignment marks
4. Loosen the locknuts and chain adjusting nuts on each side.
 5. Remove the axle nut cotter pin and the axle nut.
 6. Pull out the wheel axle and remove the wheel assembly.

EUU05600

NOTE: _____
 You do not have to disassemble the chain in order to remove or install the rear wheel.

Rear wheel installation

When installing the rear wheel, reverse the removal procedure. Pay attention to the following points:

1. Adjust the drive chain.
2. Tighten the following parts to the specified torque and make sure a new cotter pin is installed.

Tightening torque:

Axle nut:

105 Nm (10.5 m·kg, 76 ft·lb)

Tension bar bolt:

23 Nm (2.3 m·kg, 17 ft·lb)

EUU78000

⚠ WARNING

Always use a new cotter pin.

3. Adjust the rear brake pedal height and free play (see page 8-19).

EUU64500

** WARNING**

Check the operation of the brake light after adjusting the rear brake.

Troubleshooting

Although Yamaha motorcycles receive a rigid inspection before shipment from the factory, trouble may occur during operation.

Any problem in the fuel, compression, or ignition systems can cause poor starting and loss of power. The troubleshooting chart describes a quick, easy procedure for making checks.

If your motorcycle requires any repair, bring it to a Yamaha dealer. The skilled technicians at a Yamaha dealership have the tools, experience, and know-how to properly service your motorcycle. Use only genuine Yamaha parts on your motorcycle. Imitation parts may look like Yamaha parts, but they are often inferior. Consequently, they have a shorter service life and can lead to expensive repair bills.

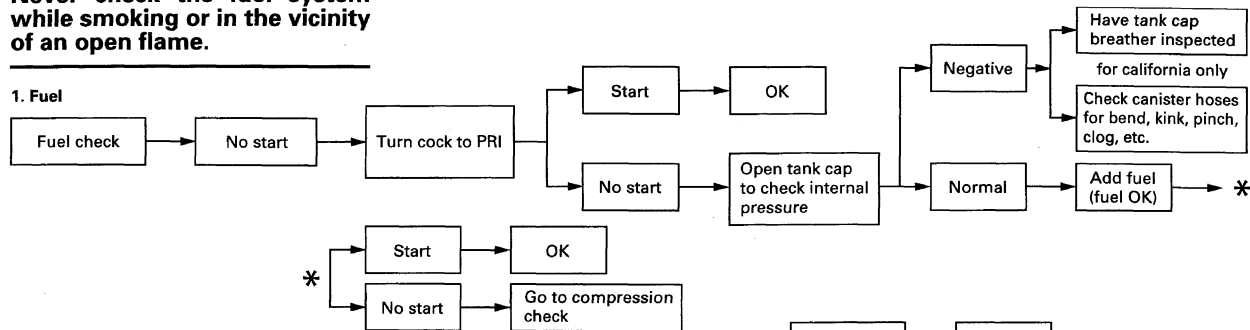
Troubleshooting chart

EUU66300

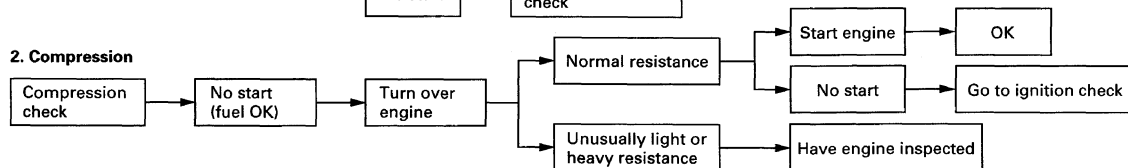
⚠ WARNING

Never check the fuel system while smoking or in the vicinity of an open flame.

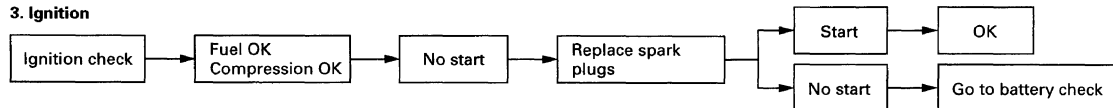
1. Fuel



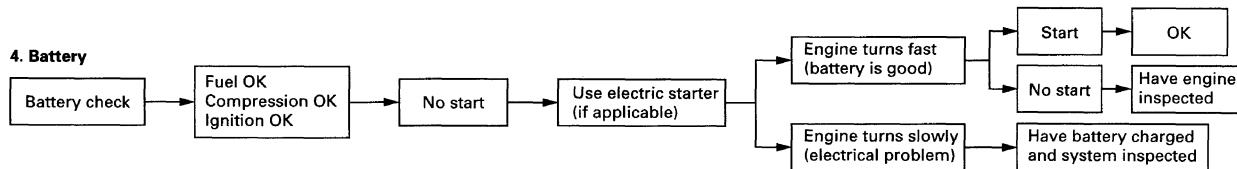
2. Compression



3. Ignition



4. Battery



CLEANING AND STORAGE

EAK02001

A. CLEANING

Frequent, thorough cleaning of your motorcycle will not only enhance its appearance but will improve its general performance and extend the useful life of many components.

1. Before cleaning the motorcycle:
 - a. Block off the end of the exhaust pipes to prevent water entry; a plastic bag and strong rubber band may be used.
 - b. Make sure the spark plugs and all filler caps are properly installed.
2. If the engine case is excessively greasy, apply degreaser with a paint brush. Do not apply degreaser to the chain, sprockets, or wheel axles.
3. Rinse the dirt and degreaser off with a garden hose. Use only enough pressure to do the job.

CAUTION:

Excessive hose pressure may cause water seepage and deterioration of wheel bearings, front fork, brakes, transmission seals and electrical parts.

Many expensive repair bills have resulted from improper high pressure detergent applications such as those available in coin-operated car washers.

4. Once the majority of the dirt has been hosed off, wash all surfaces with warm water and mild, detergent-type soap. An old toothbrush or bottle brush is handy for hard-to-get-at places.
5. Rinse the motorcycle off immediately with clean water and dry all surfaces with a chamois, clean towel, or soft absorbent cloth.
6. Dry the chain and lubricate it to prevent rust.

7. Clean the seat with a vinyl upholstery cleaner to keep the cover pliable and glossy.
8. Automotive type wax may be applied to all painted and chrome-plated surfaces. Avoid combination cleaner-waxes. Many contain abrasives which may mar the paint or protective finish. When finished, start the engine and let it idle for several minutes.

EAK02500

B. STORAGE

Long term storage (60 days or more) of your motorcycle will require some preventive procedures to guard against deterioration. After thoroughly cleaning the motorcycle, prepare for storage as follows:

1. Drain the fuel tank, fuel lines and carburetor float bowl.

2. Remove the empty fuel tank, pour a cup of SAE 10W30 or 20W40 motor oil in the tank, shake the tank to coat the inner surfaces thoroughly and drain off the excess oil. Reinstall the tank.
3. Remove the spark plugs, pour about one tablespoon of SAE 10W30 or 20W40 motor oil in the spark plug holes and reinstall the spark plugs. Turn the engine over several times (ground spark plug leads) to coat the cylinder walls with oil.

EUU66400

WARNING

When using the starter motor to crank the engine, remove the spark plug wires, and ground them to prevent sparking.

4. Remove the drive chain. Thoroughly clean the chain with solvent and lubricate it. Reinstall the chain or store it in a plastic bag (tied to frame for safe-keeping).

5. Lubricate all control cables.
6. Block up the frame to raise both wheels off the ground.
7. Tie a plastic bag over the exhaust pipe outlet to prevent moisture from entering.
8. If storing in a humid or salt-air atmosphere, coat all exposed metal surfaces with a light film of oil. Do not apply oil to any rubber parts or the seat cover.
9. Remove the battery and charge it. Store it in a dry place and recharge it once a month. Do not store the battery in an excessively warm or cold place (less than 0°C (30°F) or more than 30°C (90°F)).

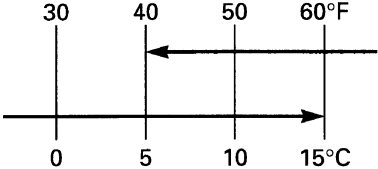
EUU05800

NOTE: _____

Make any necessary repairs before storing the motorcycle.

SPECIFICATIONS

Model	XV250/XV250C
Dimensions: Overall length Overall width Overall height Seat height Wheelbase Minimum ground clearance Minimum turning radius	2,190 mm (86.2 in) 815 mm (32.1 in) 1,140 mm (44.9 in) 685 mm (27.0 in) 1,490 mm (58.7 in) 145 mm (5.7 in) 2,800 mm (110.2 in)
Basic weight: With oil and full fuel tank	XV250: 147 kg (324 lb) XV250C: 148 kg (326 lb)
Engine: Engine type Cylinder arrangement Displacement Bore × stroke Compression ratio Starting system Lubrication system	Air-cooled 4-stroke, SOHC V type 2-cylinder 249 cm ³ 49 × 66 mm (1.93 × 2.60 in) 10:1 Electric starter Wet sump

Model	XV250/XV250C
Oil type or grade: Engine oil 	YAMALUBE 4 (20W40) or SAE20W40 type SE motor oil (If temperature does not go below 5°C/40°F) YAMALUBE 4 (10W30) or SAE10W30 type SE motor oil (If temperature does not go above 15°C/60°F)
Oil capacity: Engine oil Periodic oil change With oil filter replacement Total amount	1.4 L (1.2 Imp qt, 1.5 US qt) 1.6 L (1.4 Imp qt, 1.7 US qt) 1.8 L (1.6 Imp qt, 1.9 US qt)
Air filter:	Wet type element
Fuel: Type Fuel tank capacity Fuel reserve amount	Unleaded fuel XV250: 9.5 L (2.1 Imp gal, 2.5 US gal) XV250C: 9.2 L (2.0 Imp gal, 2.4 US gal) 2.6 L (0.6 Imp gal, 0.7 US gal)
Carburetor: Type / quantity Manufacturer	BDS26/1 MIKUNI

Model	XV250/XV250C
Spark plug: Type Manufacturer Spark plug gap	C6HSA/U20FS-U NGK/DENSO 0.6 ~ 0.7 mm (0.024 ~ 0.028 in)
Clutch type:	Wet, multiple-disc
Transmission: Primary reduction system Primary reduction ratio Secondary reduction system Secondary reduction ratio Transmission type Operation Gear ratio 1st 2nd 3rd 4th 5th	Spur gear 72/23(3.130) Chain drive 45/16(2.813) Constant mesh 5-speed Left foot operation 37/14(2.643) 32/19(1.684) 29/23(1.261) 26/26(1.000) 23/28(0.821)
Chassis: Frame type Caster angle Trail	Double cradle 32° 120 mm (4.7 in)

Model		XV250/XV250C
Tire:		
Type		With tube
Size	(front)	3.00-18 47P
	(rear)	130/90-15M/C 66P
Brake:		
Front brake	type	Single disc brake
	operation	Right hand operation
Rear brake	type	Drum brake
	operation	Right foot operation
Suspension:		
Front suspension		Telescopic fork
Rear suspension		Swingarm
Shock absorber:		
Front shock absorber		Coil spring / Oil damper
Rear shock absorber		Coil spring / Oil damper
Wheel travel:		
Front wheel travel		140 mm (5.5 in)
Rear wheel travel		100 mm (3.9 in)

Model	XV250/XV250C
Electrical: Ignition system Generator system Battery type Battery voltage, capacity	T.C.I. (Digital) A.C. magneto GM10-3A-2 12 V 10 AH
Headlight type:	Bulb type
Bulb voltage, wattage × quantity: Headlight Tail/brake light Front flasher/position light Rear flasher light Meter light Neutral indicator light High beam indicator light Turn indicator light	12 V 65 W / 60 W × 1 12 V 8 W / 27 W × 1 12 V 27 W / 8 W × 2 12 V 27 W × 2 12 V 3 W × 1 12 V 3 W × 1 12 V 1.7 W × 1 12 V 3 W × 1

CONSUMER INFORMATION

EAL00900

Reporting safety defects

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying YAMAHA MOTOR CORP. U.S.A.. If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or YAMAHA MOTOR CORP. U.S.A..

To contact NHTSA, you may either call the Auto Safety Hotline toll-free at 1-800-424-9393 (or 366-0123 in Washington, D.C. area) or write to: NHTSA, U.S. Department of Transportation, Washington, D.C. 20590. You can also obtain other information about motor vehicle safety from the Hotline.

Motorcycle noise regulation

TAMPERING WITH NOISE CONTROL SYSTEM PROHIBITED:

Federal law prohibits the following acts or the causing thereof: (1) The removal or rendering inoperative by any person other than for purposes of maintenance, repair, or replacement of any device or element of design incorporated into any new vehicle for the purpose of noise control prior to its sale or delivery to the ultimate purchaser or while it is in use or (2) the use of the vehicle after such device or element of design has been removed or rendered inoperative by any person.

"AMONG THOSE ACTS PRESUMED TO CONSTITUTE TAMPERING ARE THE ACTS LISTED BELOW".

These acts include tampering with the following systems; i.e., modification, removal, etc.

Exhaust system	Muffler Exhaust pipe Silencer
Intake system	Air cleaner case Air cleaner element Intake duct

Maintenance record

Copies of work orders and/or receipts for parts you purchase and install will be required to document that maintenance has been completed in accordance with the emission warranty. The chart below is printed only as a reminder to you that the maintenance work is required. It is not acceptable proof of maintenance work.

MAINTENANCE INTERVAL	DATE OF SERVICE	MILEAGE	SERVICING DEALER NAME AND ADDRESS	REMARKS
1,000 km or 600 mi or 1 mo.				
6,000 km or 3,800 mi or 7 mos.				
11,000 km or 6,900 mi or 13 mos.				
16,000 km or 10,000 mi or 19 mos.				
21,000 km or 13,100 mi or 25 mos.				

MAINTENANCE INTERVAL	DATE OF SERVICE	MILEAGE	SERVICING DEALER NAME AND ADDRESS	REMARKS
26,000 km or 16,100 mi or 31 mos.				
31,000 km or 19,200 mi or 37 mos.				
36,000 km or 22,300 mi or 43 mos.				
41,000 km or 25,400 mi or 49 mos.				
46,000 km or 28,500 mi or 55 mos.				
51,000 km or 31,600 mi or 61 mos.				

YAMAHA MOTOR CORPORATION, U.S.A.

STREET AND ENDURO MOTORCYCLE LIMITED WARRANTY

Yamaha Motor Corporation, U.S.A. hereby warrants each new street or enduro model Yamaha motorcycle purchased from an authorized Yamaha motorcycle dealer in the continental United States will be free from defects in material and workmanship for the period of time stated herein, subject to certain stated limitations.

THE PERIOD OF WARRANTY for Yamaha motorcycles originally equipped with headlight, stoplight, and turn signals shall be one (1) year from the date of purchase, with no mileage limitation.

MODELS EXCLUDED FROM WARRANTY include those used for non-Yamaha-authorized renting, leasing, or other commercial purposes, and TZ models.

DURING THE PERIOD OF WARRANTY any authorized Yamaha motorcycle dealer will, free of charge, repair or replace, at Yamaha's option, any part adjudged defective by Yamaha due to faulty workmanship or material from the factory. Parts used in warranty repairs will be warranted for the balance of the product's warranty period. All parts replaced under warranty become property of Yamaha Motor Corporation U.S.A.

GENERAL EXCLUSIONS from this warranty shall include any failures caused by:

- Competition or racing use.
- Installation of parts or accessories that are not qualitatively equivalent to genuine Yamaha parts.
- Abnormal strain, neglect, or abuse.
- Lack of proper maintenance.
- Accident or collision damage.
- Modification to original parts.
- Damage due to improper transportation.

SPECIFIC EXCLUSIONS from this warranty shall include parts replaced due to normal wear or routine maintenance.

THE CUSTOMER'S RESPONSIBILITY under this warranty shall be to:

- Operate and maintain the motorcycle as specified in the appropriate Owner's Manual, and
- Give notice to an authorized Yamaha motorcycle dealer of any and all apparent defects within ten (10) days after discovery, and make the machine available at that time for inspection and repairs at such dealer's place of business.

WARRANTY TRANSFER: To transfer the warranty from the original purchaser to any subsequent purchaser, it is imperative that the machine be inspected and registered for warranty by an authorized Yamaha motorcycle dealer. In order for this warranty to remain in effect, this inspection and registration must take place within ten (10) days after transfer. An inspection and registration fee will be charged for this service.

EMISSIONS CONTROL SYSTEM WARRANTY

Yamaha Motor Corporation, U.S.A. also warrants to the ultimate purchaser and each subsequent purchaser of each Yamaha motorcycle covered by this warranty with a displacement of 50cc or greater, that the vehicle is designed, built, and equipped so as to conform at the time of sale with all U.S. emissions standards applicable at the time of manufacture and that it is free from defects in materials and workmanship which would cause it not to meet these standards within the periods listed immediately below. Failure other than those resulting from defects in material or workmanship which arise solely as a result of owner abuse and / or lack of proper maintenance are not covered by this warranty.

ENGINE DISPLACEMENT

		PERIOD
50cc to 169cc	12,000 km (7,465 miles)	or five years, whichever occurs first
170cc to 279cc	18,000 km (11,185 miles)	or five years, whichever occurs first
280cc or over	30,000 km (18,641 miles)	or five years, whichever occurs first

YAMAHA MOTOR CORPORATION, U.S.A. MAKES NO OTHER WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED. ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WHICH EXCEED THE OBLIGATIONS AND TIME LIMITS STATED IN THIS WARRANTY ARE HEREBY DISCLAIMED BY YAMAHA MOTOR CORPORATION, U.S.A. AND EXCLUDED FROM THIS WARRANTY.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. ALSO EXCLUDED FROM THIS WARRANTY ARE ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING LOSS OF USE. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE EXCLUSION MAY NOT APPLY TO YOU.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

YAMAHA MOTOR CORPORATION, U.S.A.
P. O. Box 6555
Cypress, California 90630

WARRANTY QUESTIONS AND ANSWERS

- Q. What costs are my responsibility during the warranty period?
- A. The customer's responsibility includes all costs of normal maintenance services, non-warranty repairs, accident and collision damage, and oil, oil filters, air filters, spark plugs, and brake shoes or pads.
- Q. What are some examples of "abnormal" strain, neglect, or abuse?
- A. These terms are general and overlap each other in areas. Specific examples include: Running the machine out of oil; sustained high-rpm, full-throttle use; operating the machine with a broken or damaged part which causes another part to fail; damage or failure due to improper or careless transportation and or tie down; and so on. If you have any specific questions on operation or maintenance, please contact your dealer for advice.
- Q. Does the warranty cover incidental costs such as towing or transportation due to a failure?
- A. No. The warranty is limited to repair of the machine itself.
- Q. May I perform any or all of the recommended maintenance shown in the Owner's Manual instead of having the dealer do them?
- A. Yes, if you are a qualified mechanic and follow the procedures specified in the Owner's and Service Manual. We do recommend, however, that items requiring special tools or equipment be done by a Yamaha motorcycle dealer.
- Q. Will the warranty be void or cancelled if I do not operate or maintain my new motorcycle exactly as specified in the Owner's Manual?
- A. No. The warranty on a new motorcycle cannot be "voided" or "cancelled." **However, if a particular failure is caused by operation or maintenance other than as shown in the Owner's Manual, that failure may not be covered under warranty.**
- Q. What responsibility does my dealer have under this warranty?
- A. Each Yamaha motorcycle dealer is expected to:
1. Completely set up every new machine before sale.
 2. Explain the operation, maintenance, and warranty requirements to your satisfaction at the time of sale, and upon your request at any later date.
- In addition, each Yamaha motorcycle dealer is held responsible for his setup, service and warranty repair work.
- Q. Is the warranty transferable to second owners?
- A. Yes. The remainder of the existing warranty can be transferred upon request. The unit has to be inspected and re-registered by an authorized Yamaha motorcycle dealer for the warranty coverage to remain effective.

CUSTOMER SERVICE

If your machine requires warranty service, you must take it to any authorized Yamaha motorcycle dealer within the continental United States. Be sure to bring your warranty registration identification or other valid proof of the original date of purchase. If a question or problem arises regarding warranty, first contact the owner of the dealership. Since all warranty matters are handled at the dealer level, this person is in the best position to help you. If you are still not satisfied and require additional assistance, please write:

YAMAHA MOTOR CORPORATION U.S.A.
CUSTOMER RELATIONS DEPARTMENT
P.O. Box 6555
Cypress, California 90630

When contacting Yamaha Motor Corporation, U.S.A. don't forget to include any important information such as names, addresses, model, engine serial number, dates, and receipts.

CHANGE OF ADDRESS

The federal government requires each manufacturer of a motor vehicle to maintain a complete, up-to-date list of all first purchasers against the possibility of a safety-related defect and recall. This list is compiled from the purchase registrations sent to Yamaha Motor Corporation, U.S.A. by the selling dealer at the time of your purchase.

If you should move after you have purchased your new motorcycle, please advise us of your new address by sending a postcard listing your motorcycle model name, engine serial number, dealer number (or dealer's name) as it is shown on your warranty identification, your name and new mailing address. Mail to:

YAMAHA MOTOR CORPORATION, U.S.A.
WARRANTY DEPARTMENT
P.O. Box 6555
Cypress, California 90630

This will ensure that Yamaha Motor Corporation, U.S.A. has an up-to-date registration record in accordance with federal law.

YAMAHA EXTENDED SERVICE (Y.E.S.)

Keep your Yamaha protected even after your warranty expires with genuine Yamaha Extended Service (Y.E.S.).

- Y.E.S. is designed and administered by Yamaha Motor Corporation to provide maximum owner satisfaction. You get uninterrupted factory-backed coverage for extra peace of mind.
- Y.E.S. is flexible. You choose the plan that's right for you: 12 months, 24 months, or 36 months beyond your warranty period.
- Y.E.S. is designed and administered by the same Yamaha people who handle your warranty — and it shows in the comprehensive coverage benefits. There are no mileage limitations. Coverage isn't limited to "moving parts" or the "drive train" like many other plans. And Y.E.S. covers manufacturing defects just like the warranty. See the sample contract at your Yamaha dealer to see how comforting uninterrupted factory-backed protection can be.
- You don't have to pay anything for covered repairs. There's no deductible to pay, and repairs aren't "pro-rated." You don't have any "out-of-pocket" expenses for covered repairs.
- In addition, Travel and Recreation Interruption Protection (TRIP) is included at no extra cost. TRIP gives you up to \$150 reimbursement per occurrence for any reasonable expenses you incur because your Yamaha needs covered service: replacement vehicle rental, emergency towing, phone calls, even food and lodging when you are away from home. This superb coverage goes into effect when you purchase Y.E.S., so it applies to any warranty repairs as well as covered repairs during your entire Y.E.S. plan period.
- Y.E.S. coverage is honored at any authorized Yamaha dealer nationwide.
- Y.E.S. coverage is transferrable to a new owner if you sell or trade-in. That can make your Yamaha much more valuable!

This excellent Y.E.S. plan coverage is only available to Yamaha owners like you, and only while your Yamaha is still within the Yamaha Limited Warranty period. So visit your authorized Yamaha dealer to get all the facts. He can show you how easy it is to protect your investment with Yamaha Extended Service.

We urge you to act now. You'll get the excellent benefits of TRIP coverage right away, and you'll rest easy knowing you'll have strong factory-backed protection even after your Yamaha Limited Warranty expires. You can also save money: Y.E.S. costs less within the first 90 days after you buy your Yamaha. See your dealer today!

A special note:

If visiting your dealer isn't convenient, contact Yamaha with your Primary ID number (your engine number). We'll be happy to help you get the Y.E.S. coverage you need.

Yamaha Service Marketing

P.O. Box 6555

Cypress, CA 90630

(714) 761-7631



YAMAHA EXTENDED SERVICE